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Wiring Devices - Dimensional Specifications

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FOREWORD

The purpose of these Standard is to present the dimensional requirements of wiring devices in order to assist the user in selecting and obtaining the proper product for a particular need and to minimize the possibility of unsafe interchangeability between configurations.

In the preparation of this Standard Publication, input of users and other interested parties has been sought and evaluated. User input will be formally sought by the canvas procedures of the American National Standards Institute.

Proposed or recommended revision should be submitted to:

Senior Technical Director, Operations
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Rosslyn, Virginia 22209

Publication **ANSI/NEMA WD 6-2016** revises and supersedes previous publication: ANSI/NEMA WD 6-2002 (R2008), and ANSI/NEMA WD 6-2012.

SCOPE

This standard covers dimensional requirements for plugs and receptacles rated up to 60 Ampere and 600 Volts. It also includes dimensions for wall plates.

Also included is the recommended marking for automatically controlled receptacles.



INTRODUCTION

Throughout this publication the following shall apply:

- 1) All dimensions are in inches, unless otherwise specified.
- 2) Decimal dimensions without tolerances shall be subject to a ± 0.005 inch tolerance.
- 3) Angular dimensions without tolerances shall be subject to a ± 1 degree tolerance.
- 4) "G" denotes equipment ground.
- 5) "W" denotes system ground.
- 6) Leading edges of plug blades shall be free of burrs and sharp edges.
- 7) All slots and slot tolerances are symmetrically located about centerlines.
- 8) Female contacts associated with plug blades that are 0.125 inch minimum longer than other blades, are engaged prior to the other female contacts.
- 9) Configurations utilized on alternating current systems, are limited to 50 or 60 Hertz, unless otherwise specified.
- 10) Dimensions shown in these standards are for the purpose of interchangeability, and do not preclude other designs.
- 11) The electrical ratings of the configurations in these standards are AC and DC, unless specifically stated "AC" or "DC".

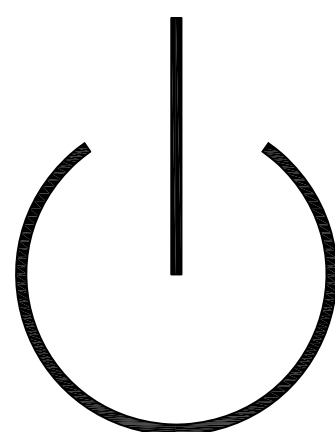
MARKING FOR AUTOMATICALLY CONTROLLED RECEPTACLES

The following marking is recommended by NEMA to indicate receptacles or parts of multi-outlet receptacles that are controlled by a system, a device, or incorporate features that remove power from the outlet for the purpose of energy management or building automation. The control could be an energy management system, timer or sensor.

The marking is not intended for other devices such as GFCI or a fused or temperature controlled device intended to interrupt power for safety reasons unless the device is also part of a control system.

The marking is optional for receptacles controlled by a manually operated wall switch as permitted by code to provide the required room lighting outlets.

MARKING FOR CONTROLLED RECEPTACLES



The purpose of the marking is to instruct the user that the outlet may be subject to unattended switching and to take this into consideration when attaching a plugged-in appliance or other load. Thus it is important to be able to readily identify receptacle outlets that will be powered on and off.

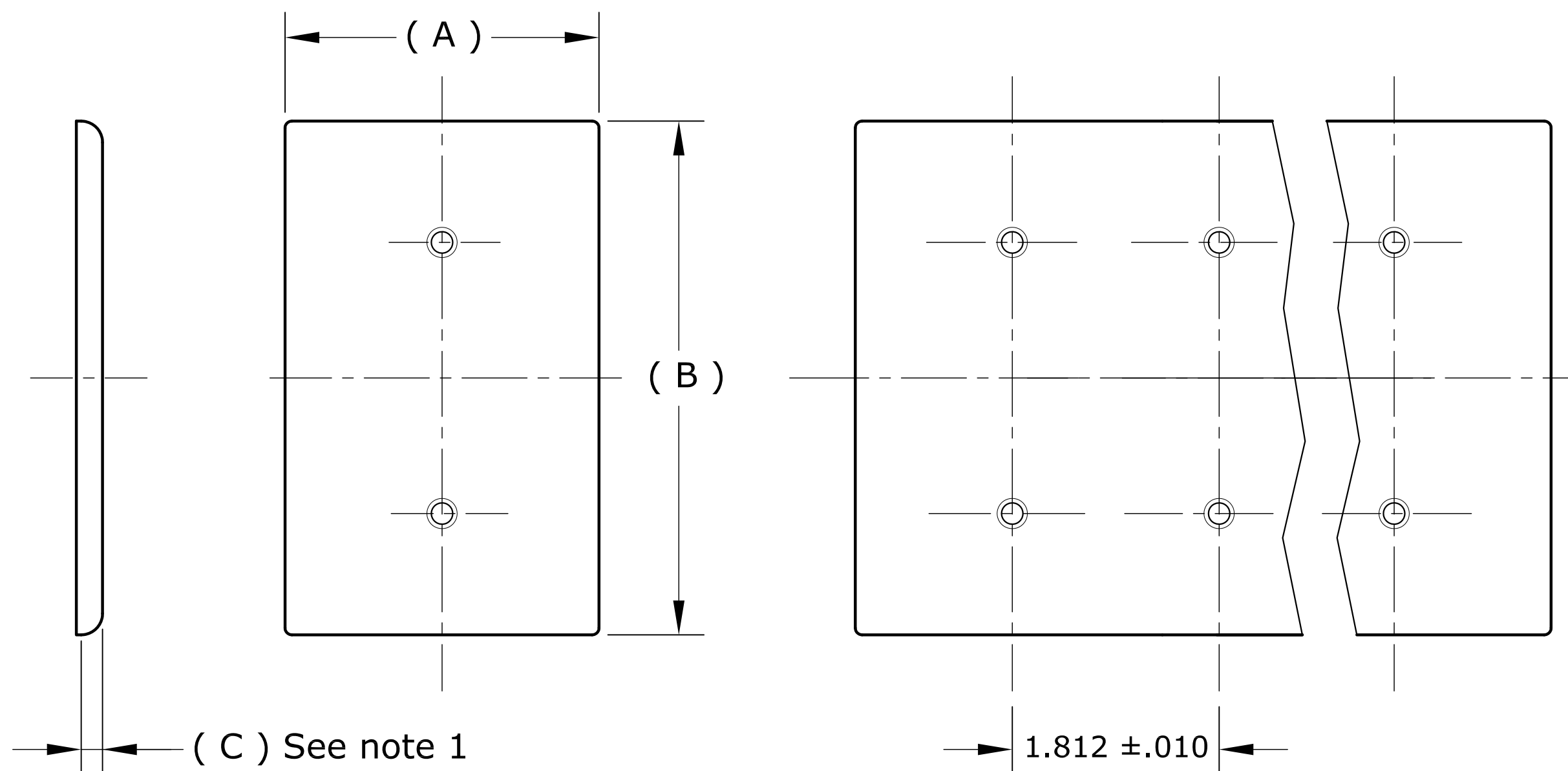
The mark may be located either on or close to the controlled receptacle. The mark shall be located such that it clearly identifies the controlled receptacles outlet after installation.

The marking may be required by a product standard, an installation code or a similar document.

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DIMENSIONAL SPECIFICATION FOR WALLPLATES



Single-gang wallplate
overall dimensions

Multigang wallplate horizontal hole spacing
(For vertical hole spacing see page 3)

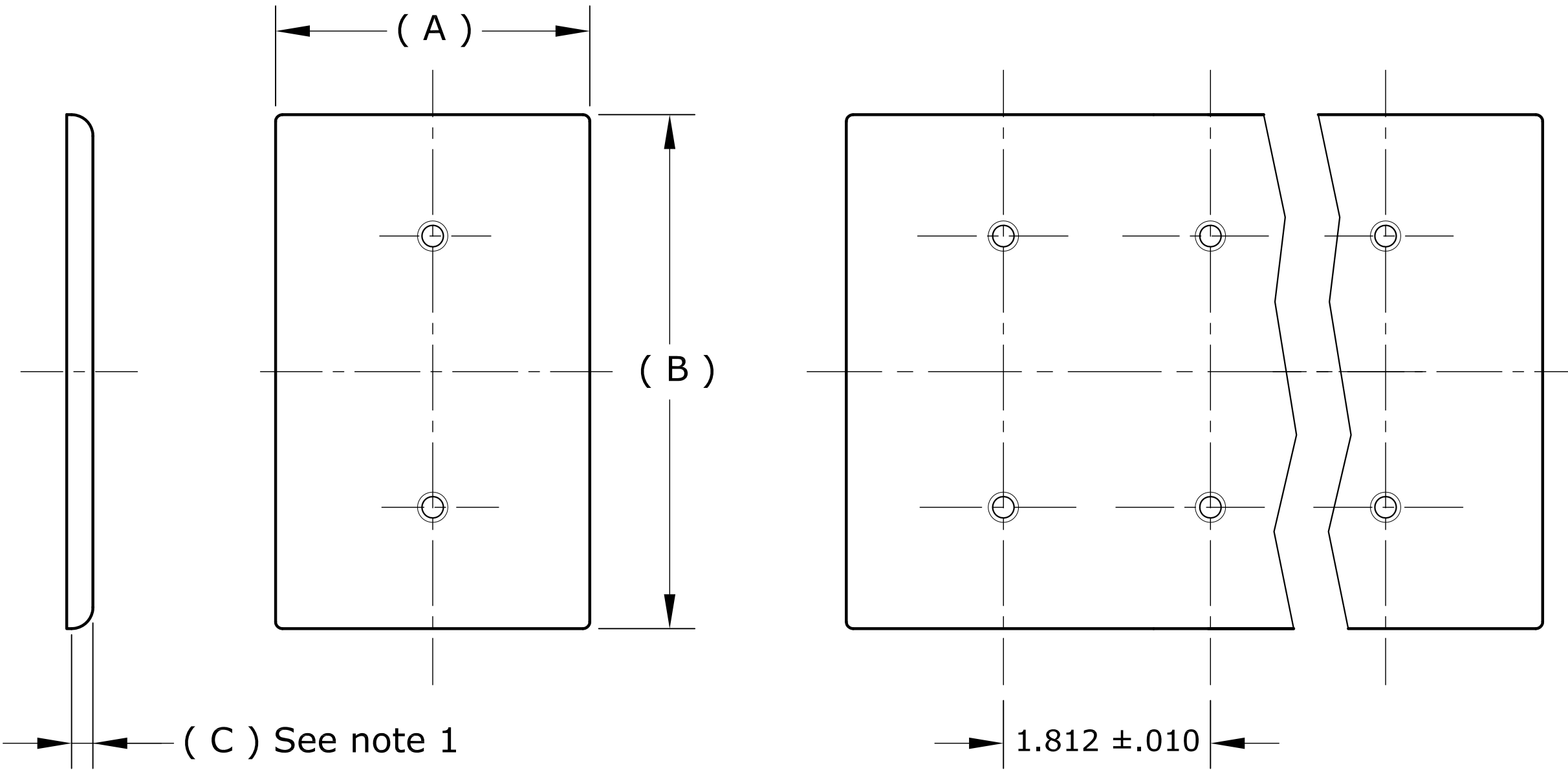


REFERENCE	MATERIAL	STANDARD DIMENSIONS	
		MIN	MAX
A	ALL	2.740	----
B	ALL	4.490	----

NOTES:

1. The depth is defined in accordance to the applicable installation code by the authority having jurisdiction. Decorative contours should not preclude the flush seating of a plug into a receptacle.
2. Plate mounting holes to be counter-sunk for # 6-32 UNC, oval head machine screw.
3. Ribs are optional on non-metallic plates. Height, width, and location of ribs shall clear device for which the plate is designed or intended for use.

DIMENSIONAL SPECIFICATIONS FOR WALLPLATES
USED ON 347V SWITCH DEVICES



Single-gang wallplate
overall dimensions

Multigang wallplate horizontal hole spacing
(For vertical hole spacing see page 3)

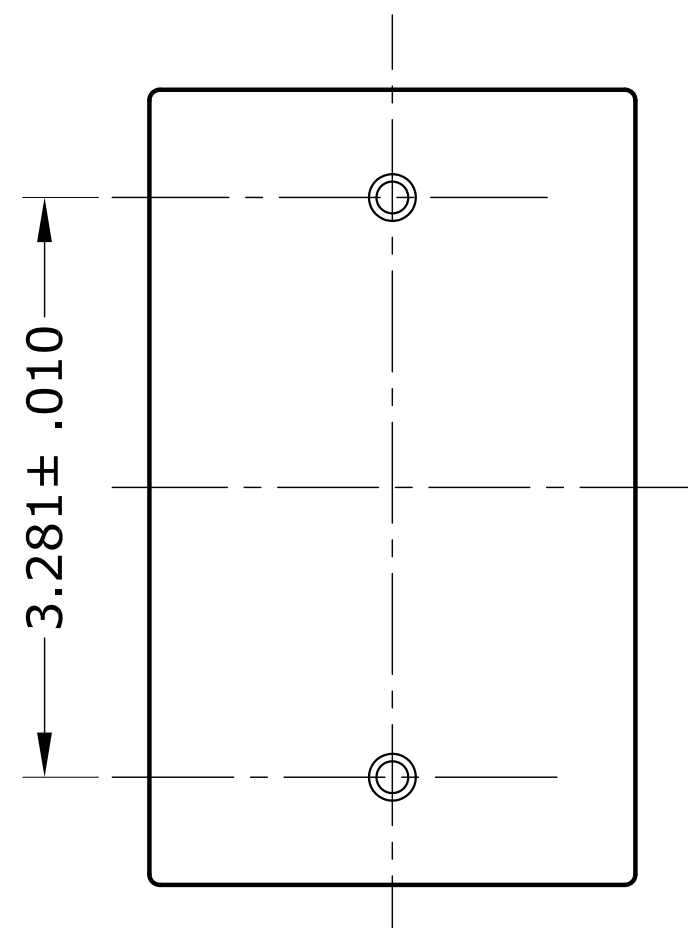


REFERENCE	MATERIAL	STANDARD DIMENSIONS	
		MIN	MAX
A	ALL	3.120	----
B	ALL	4.870	----

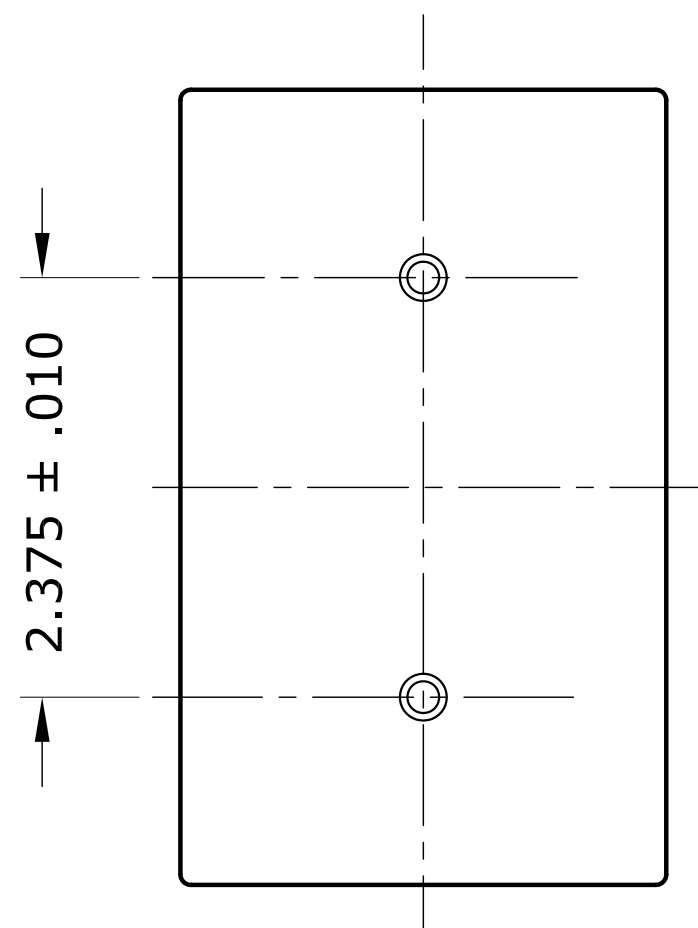
NOTES:

1. The depth is defined in accordance to the applicable installation code by the authority having jurisdiction. Decorative contours should not preclude the flush seating of a plug into a receptacle.
2. Plate mounting holes to be counter-sunk for # 6-32 UNC, oval head machine screw.
3. Ribs are optional on non-metallic plates. Height, width, and location of ribs shall clear device for which the plate is designed or intended for use.

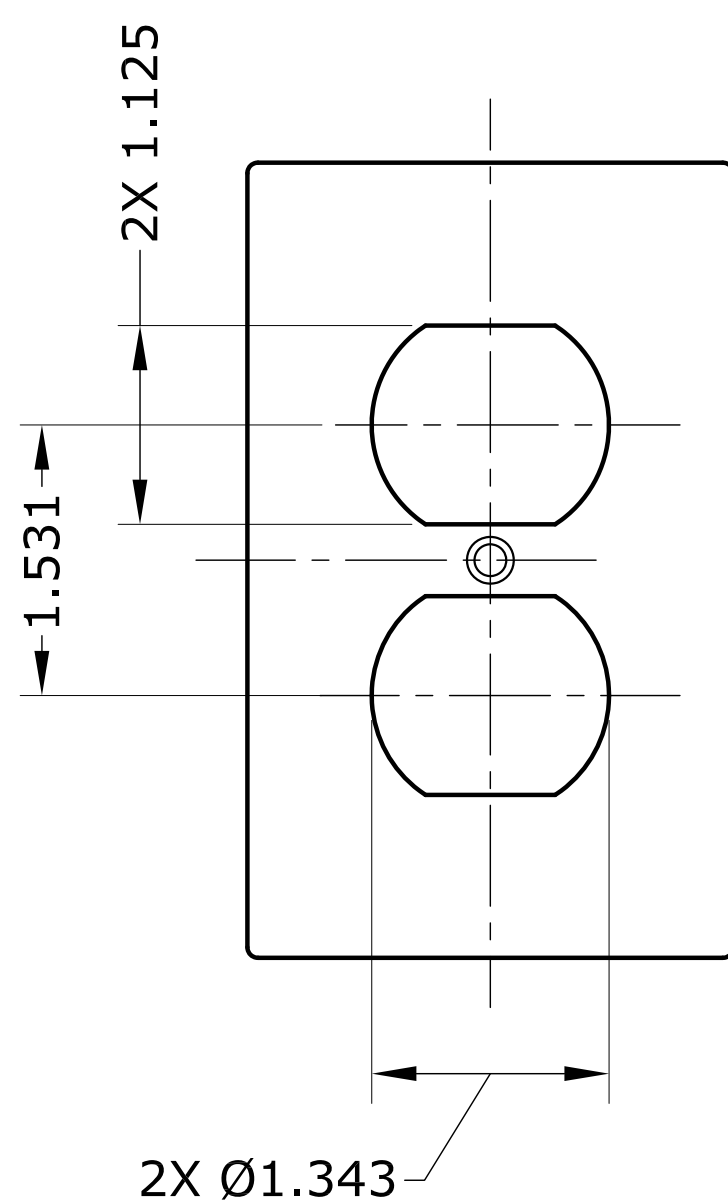
MOUNTING AND CUT-OUTS DIMENSIONS



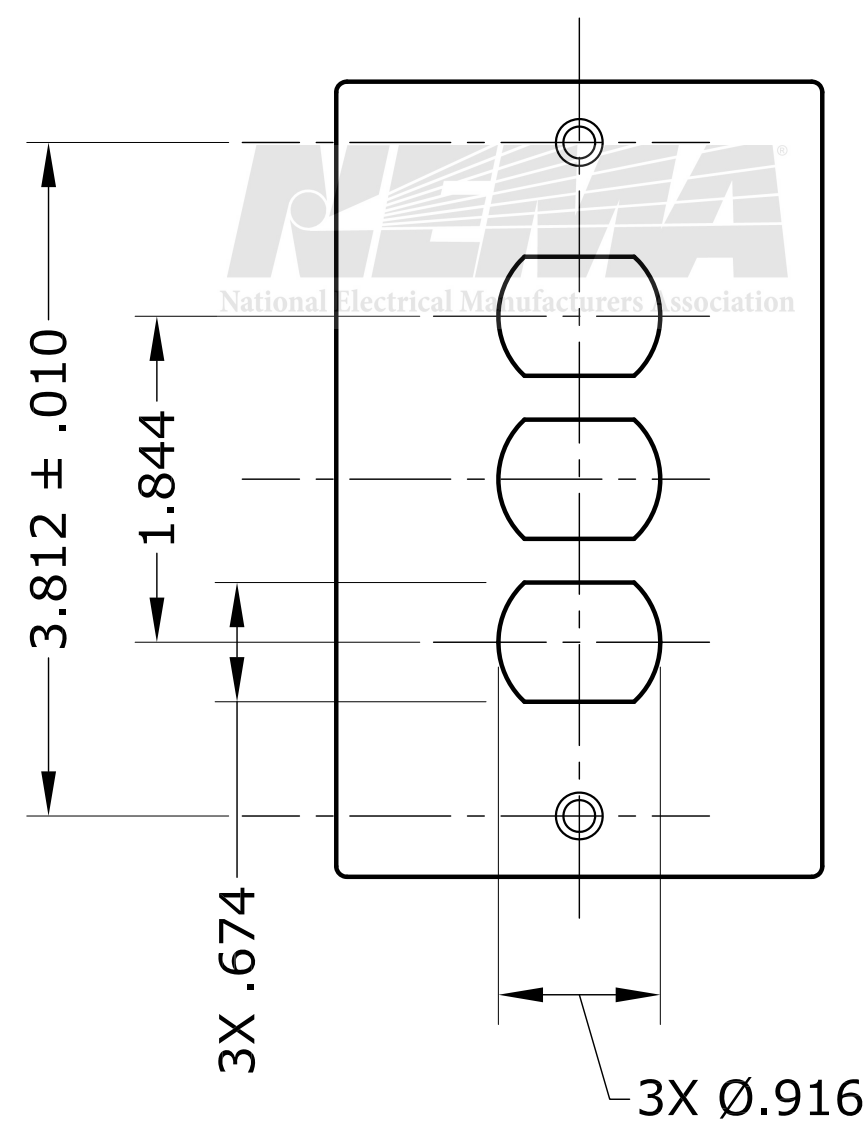
Box mount blank plate
(See note 3)



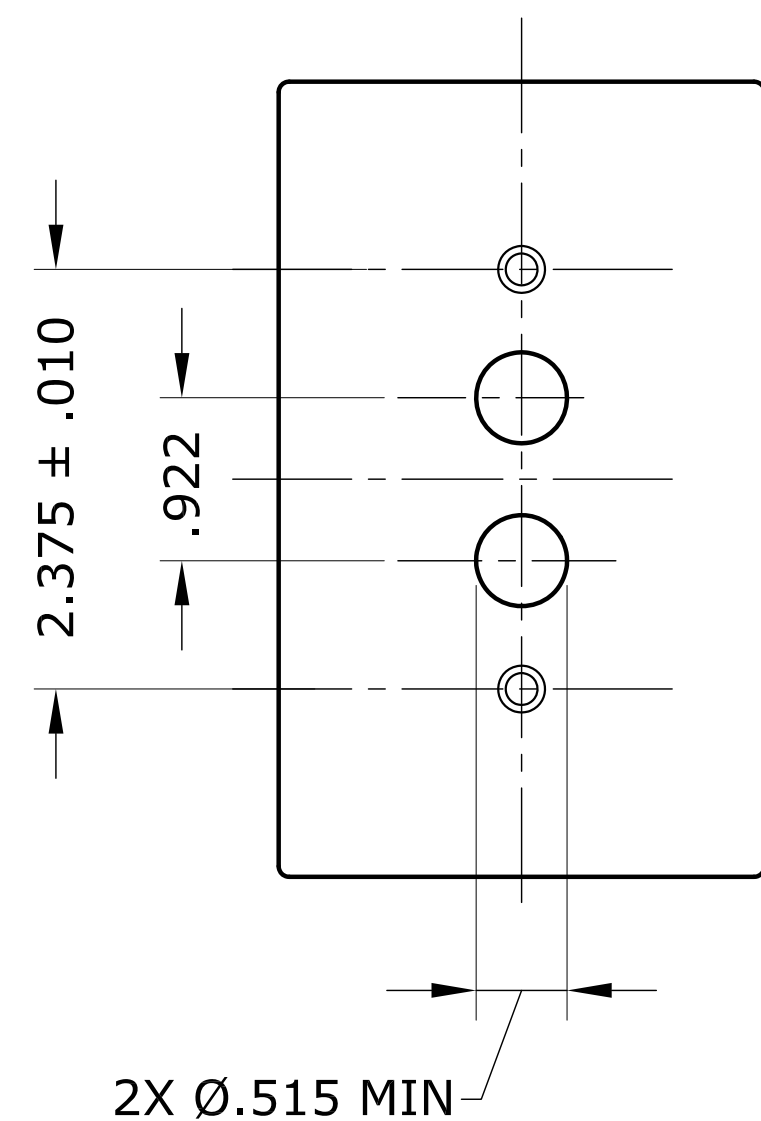
Yoke mount blank plate
(See note 3)



Duplex device



Interchangeable device

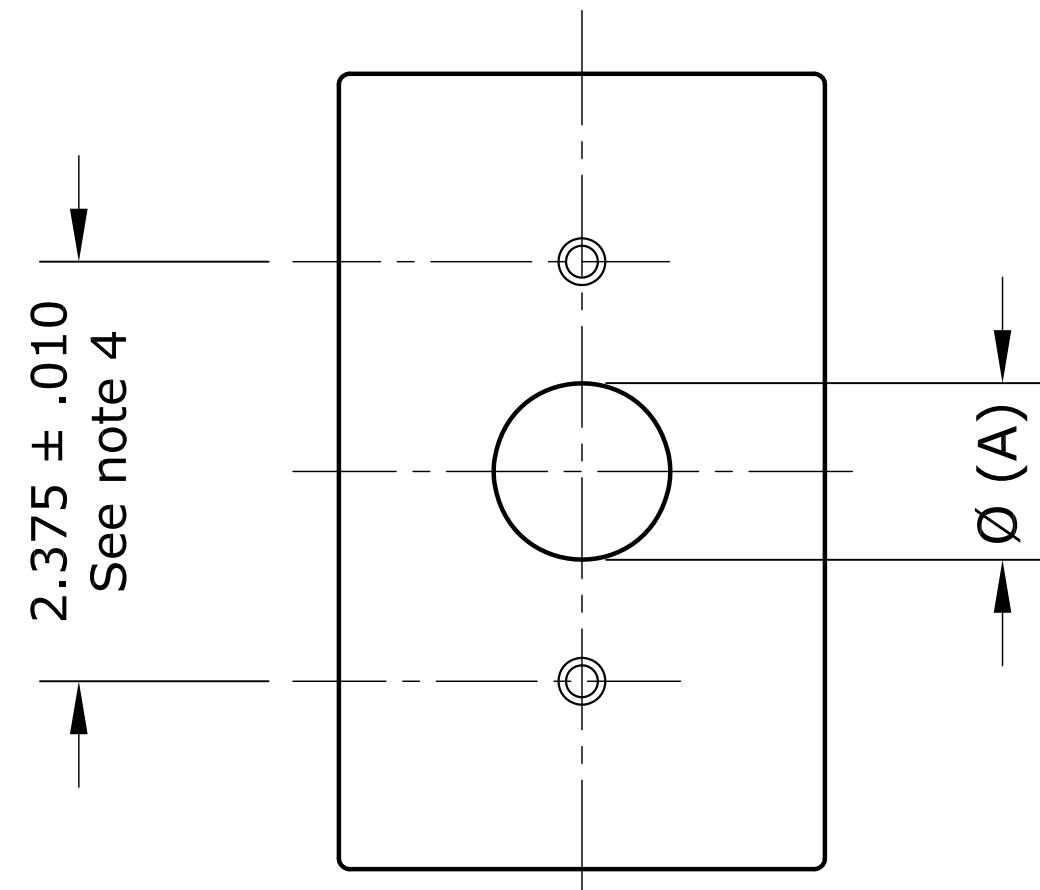


Two button push switch

NOTES:

1. Plate mounting holes to be counter-sunk for # 6-32 UNC, oval head machine screw.
2. Ribs are optional on non-metallic plates. Height, width, and location of ribs shall clear device for which the plate is designed or intended for use.
3. Blank plates may be provided with knock-outs.

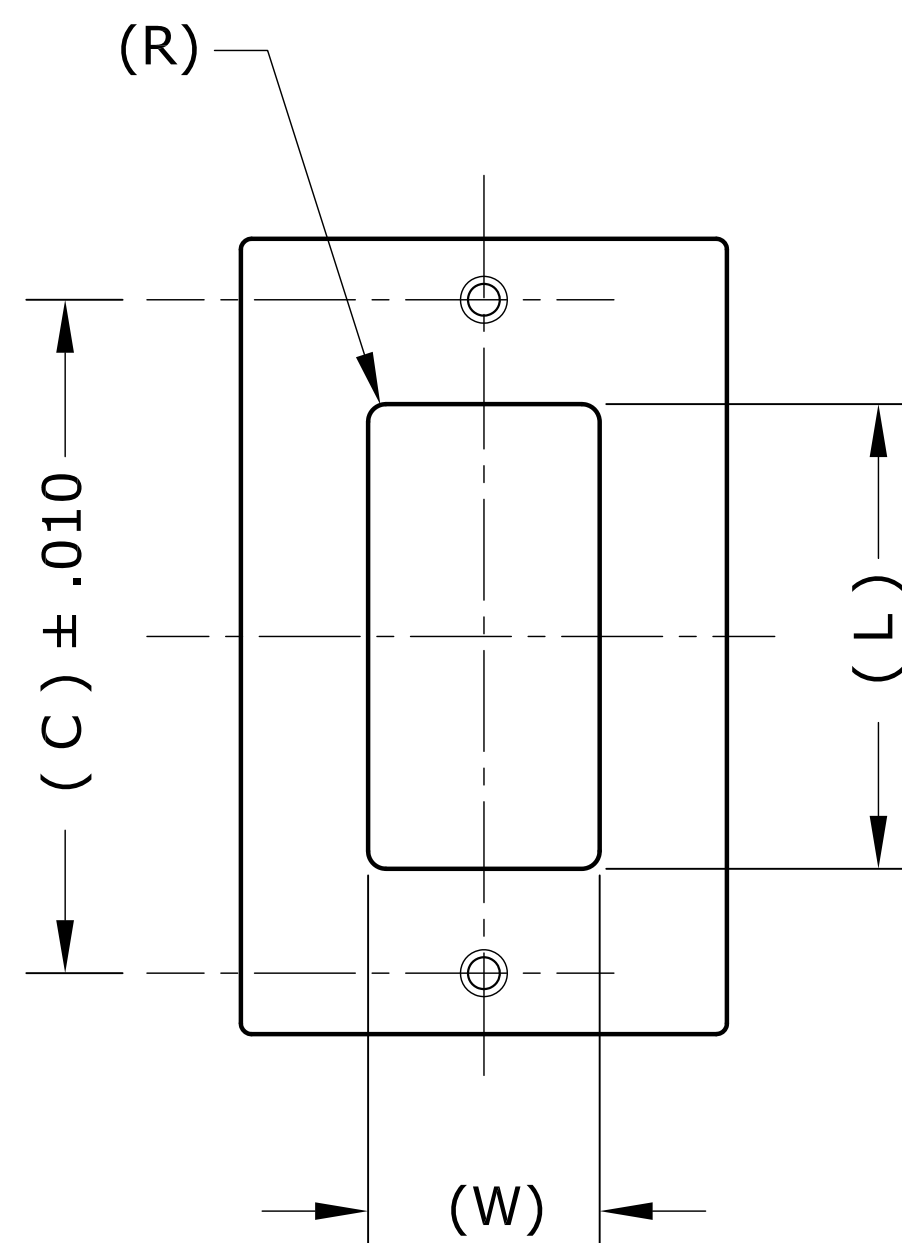
WALLPLATE DIMENSIONS FOR ROUND FACE DEVICES



NOMINAL DIAMETER	DEVICE FACE DIAMETER		WALLPLATE OPENING Ø (A)	
	MIN	MAX	MIN	MAX
1	0.968	1.000	1.109	1.025
1 1/8	1.093	1.125	1.134	1.150
1 1/4	1.205	1.235	1.245	1.263
1 3/8	1.360	1.390	1.396	1.414
1 9/16	1.550	1.580	1.586	1.604
1 5/8	1.610	1.640	1.646	1.664
1 11/16	1.675	1.705	1.711	1.729
2 1/8	2.093	2.125	2.140	2.156
2 1/4	2.218	2.250	2.265*	2.281*
2 7/16	2.405	2.437	2.452*	2.468*

- NOTES:
- 1. Plate mounting holes to be counter-sunk for # 6-32 UNC, oval head machine screw.
 - 2. Ribs are optional on non-metallic plates. Height, width, and location of ribs shall clear device for which the plate is designed or intended for use.
 - 3. Dimensions with asterisk (*) apply to multigang plates only.
 - 4. Single gang wall plates for 2 1/8 diameter have 2.500 ± .010 inch mounting centers. See page 9 for 2 gang dimensions.

WALLPLATE DIMENSIONS FOR RECTANGULAR FACE DEVICES

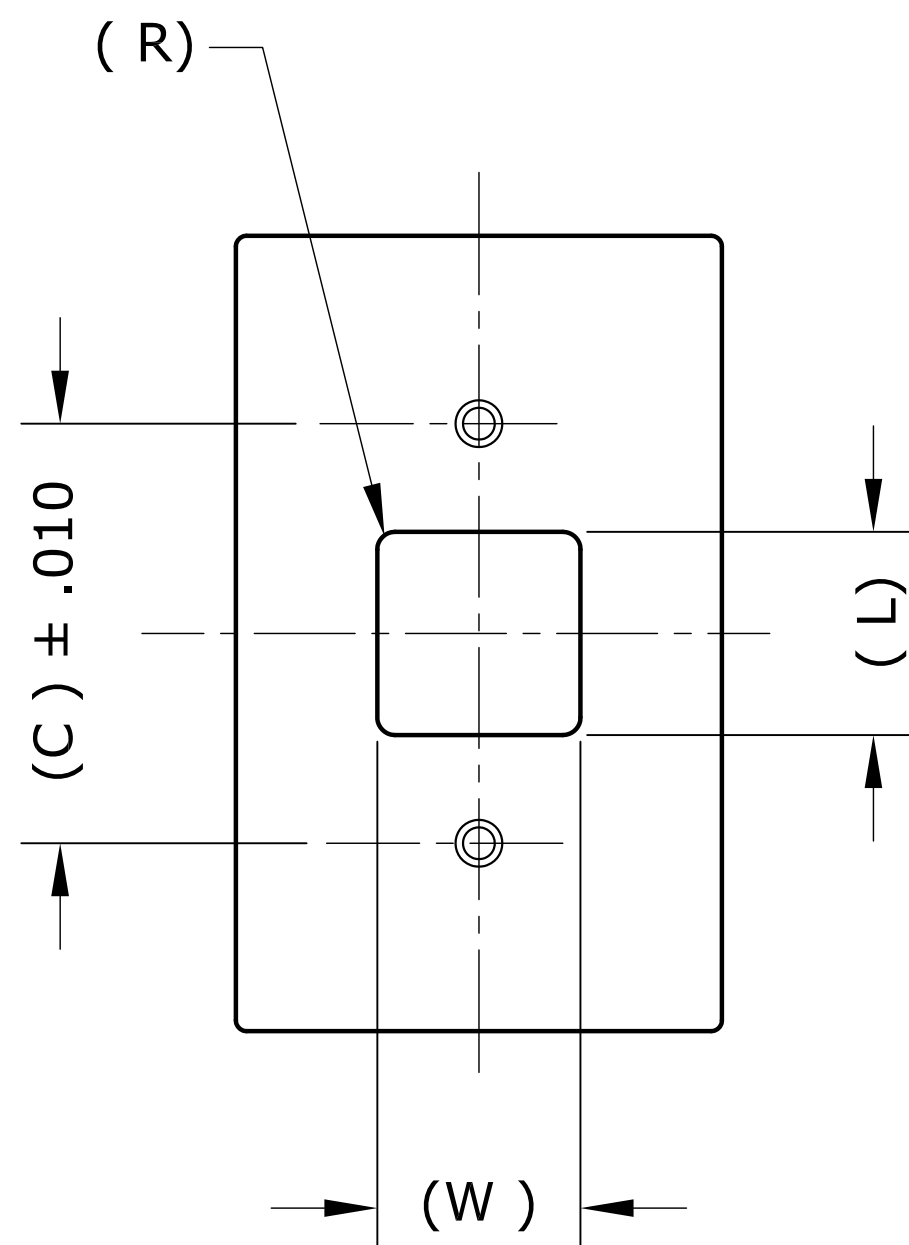


(W) MIN	(L) MIN	(R)	(C)	APPLICATION (FACE OF DEVICE)
1.310	2.630	0.079	4.062	1.300 MAX W x 2.620 MAX L (347V SWITCH)
1.310	2.630	0.094	3.812	1.300 MAX W x 2.620 MAX L

NOTES:

1. Plate mounting holes to be counter-sunk for # 6-32 UNC, oval head machine screw.
2. Ribs are optional on non-metallic plates. Height, width, and location of ribs shall clear device for which the plate is designed or intended for use.

WALLPLATE DIMENSIONS FOR TELEPHONE DEVICES

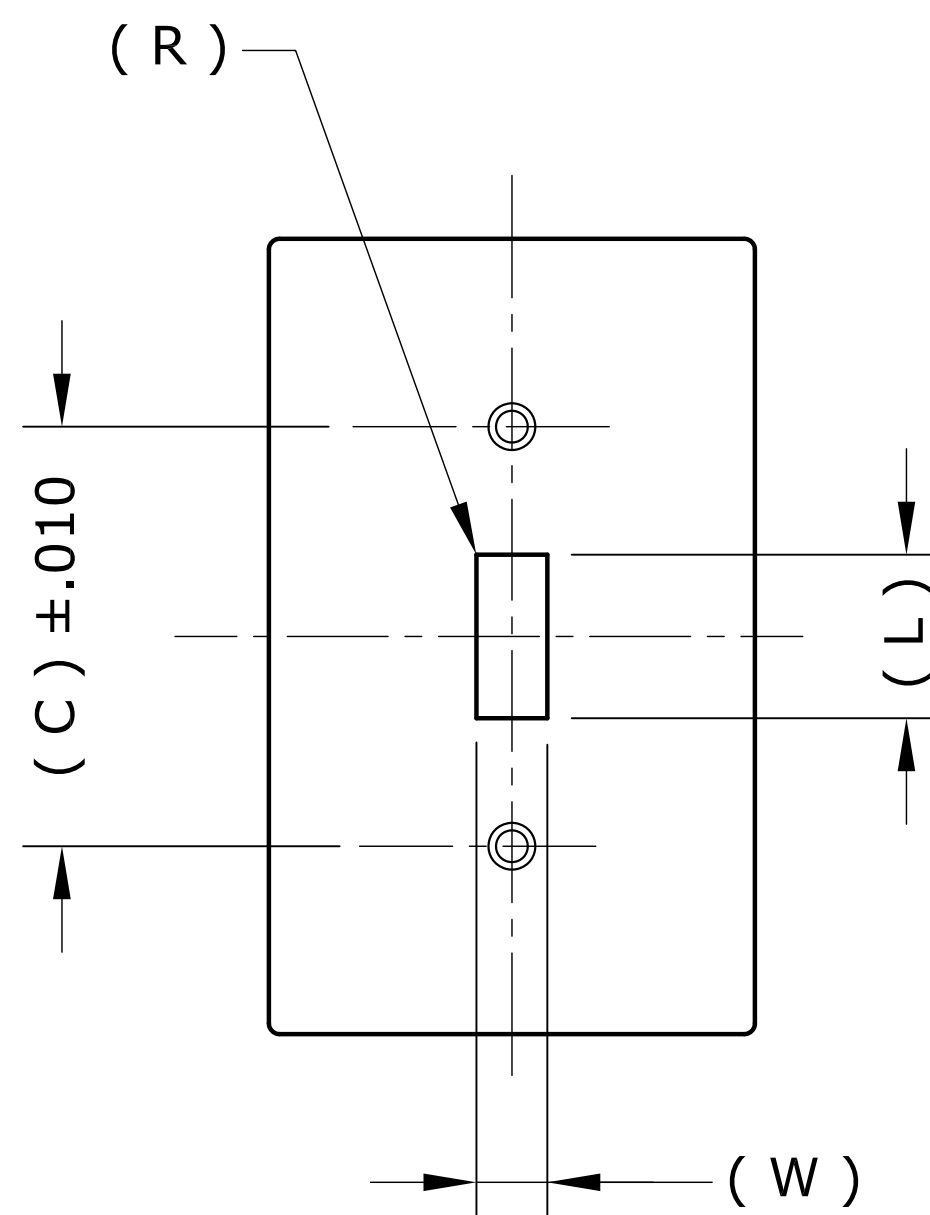


NEMA National Electrical Manufacturers Association				
(W) MIN	(L) MIN	(R)	(C)	APPLICATION (FACE OF DEVICE)
1.150	1.150	0.250	2.375	1.140 MAX W x 1.140 MAX L

NOTES:

- 1. Plate mounting holes to be counter-sunk for # 6-32 UNC, oval head machine screw.
- 2. Ribs are optional on non-metallic plates. Height, width, and location of ribs shall clear device for which the plate is designed or intended for use.

WALLPLATE DIMENSIONS FOR TOGGLE SWITCH DEVICES

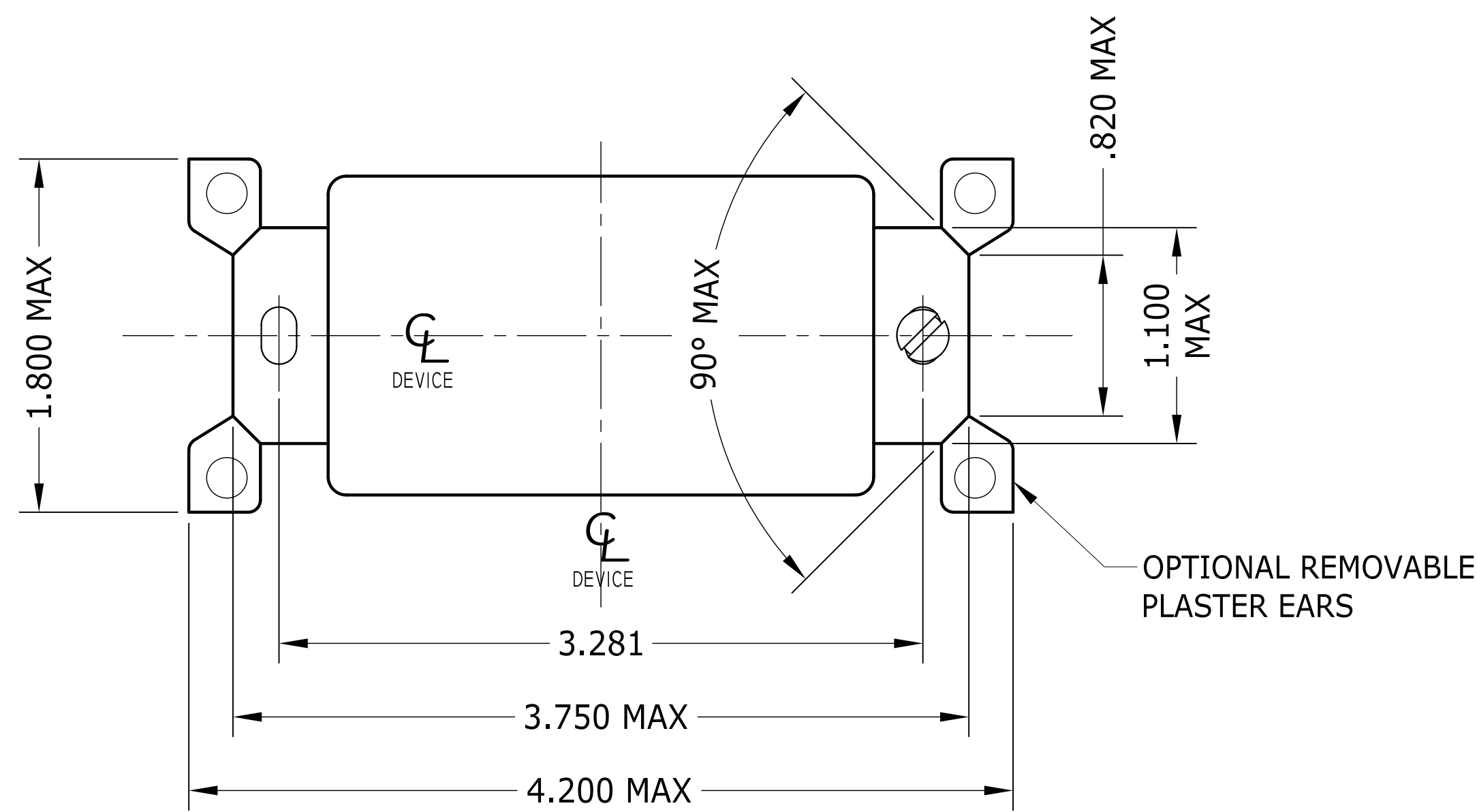


(W) MIN	(L) MIN	(R)	(C)	APPLICATION (FACE OF DEVICE)
0.401	0.925	0	2.375	120V to 600V

NOTES:

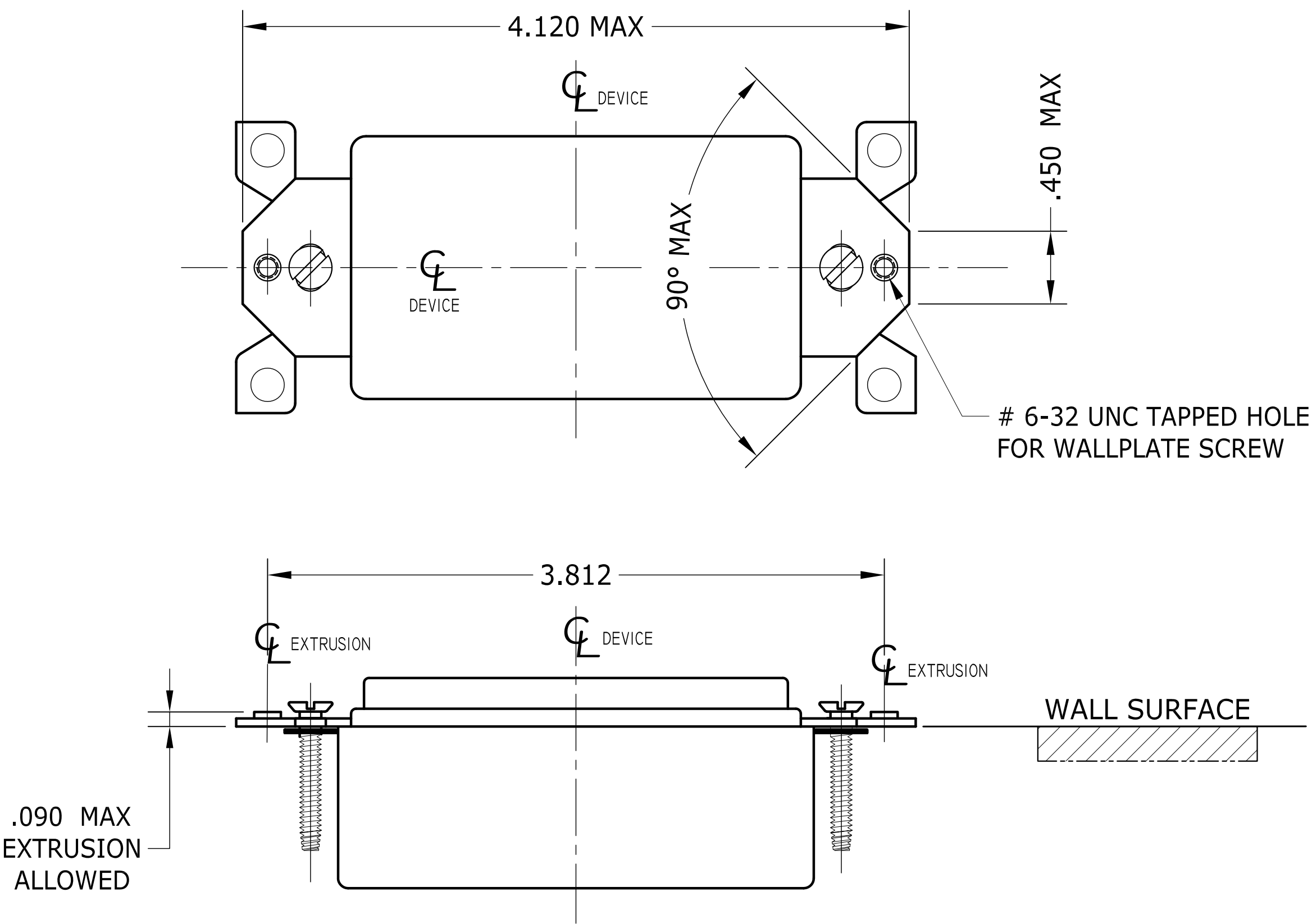
1. Plate mounting holes to be counter-sunk for # 6-32 UNC, oval head machine screw.
2. Ribs are optional on non-metallic plates. Height, width, and location of ribs shall clear device for which the plate is designed or intended for use.

YOKE DIMENSIONS OF RECEPTACLES AND SWITCHES
FOR BOX MOUNTING

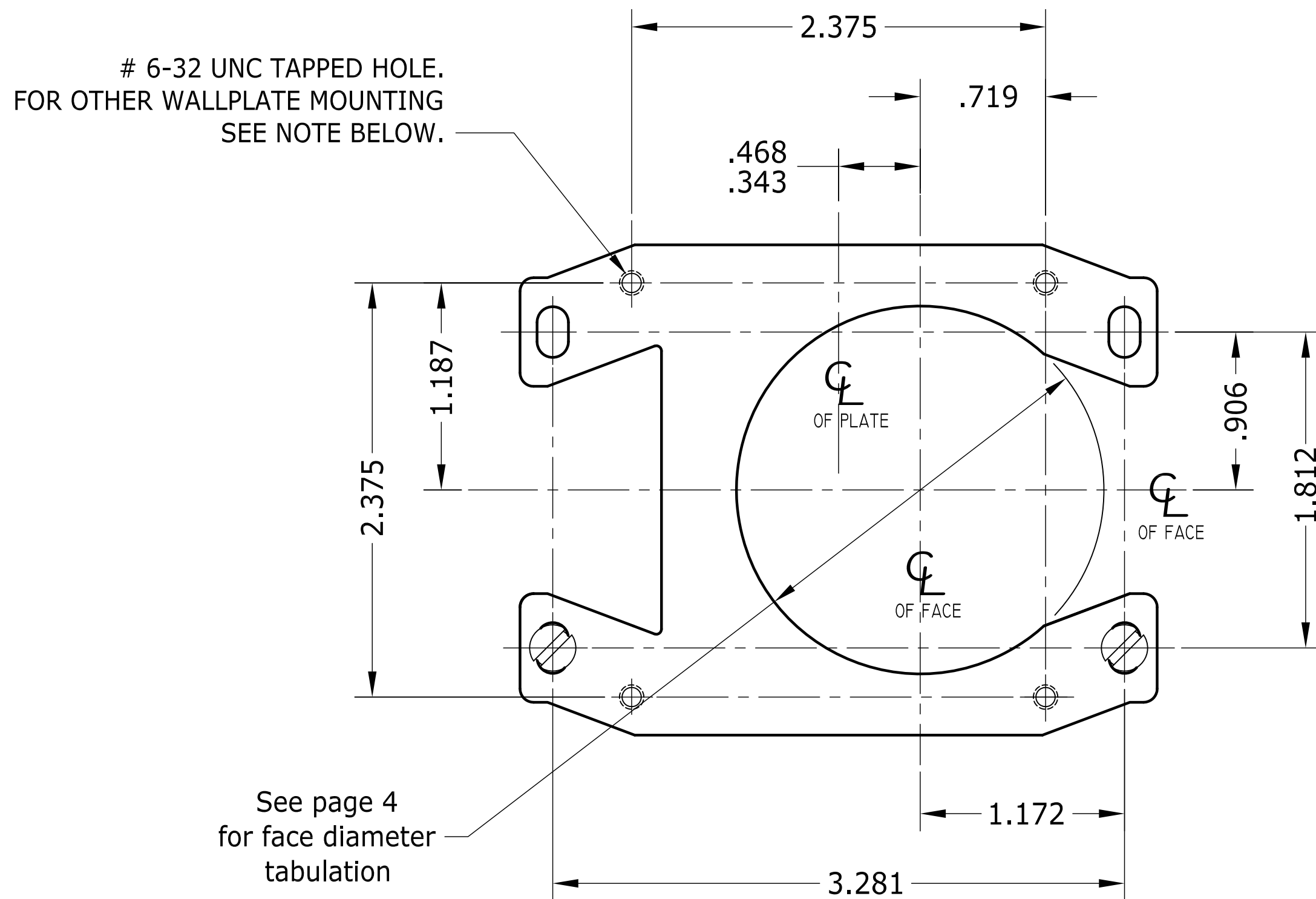


ALTERNATE YOKE CONSTRUCTION
(DIMENSIONS NOT SHOWN SAME AS ABOVE)

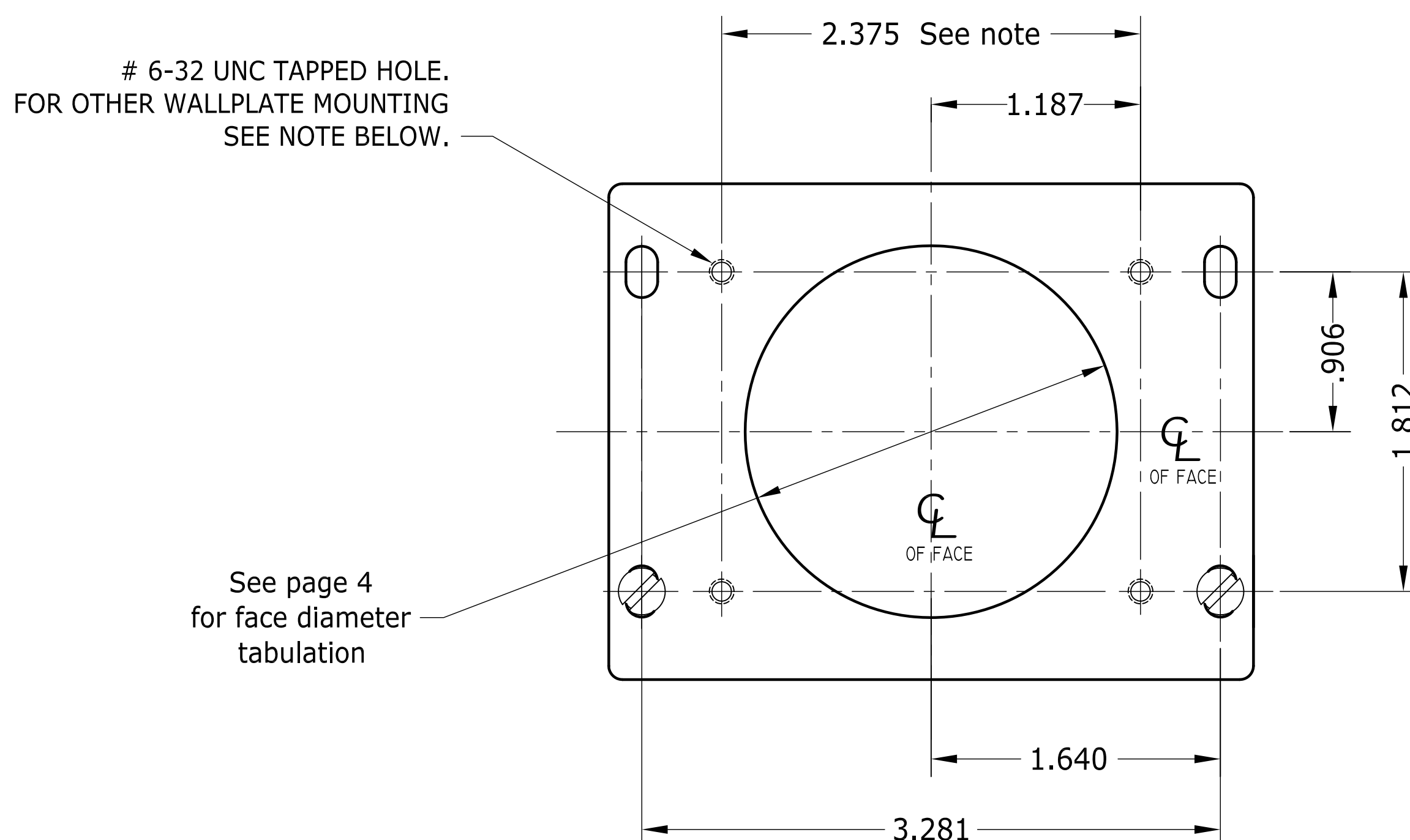
National Electrical Manufacturers Association



YOKE DIMENSIONS FOR 2 GANG RECEPTACLE MOUNTING "OFF-CENTER FACE" TYPE



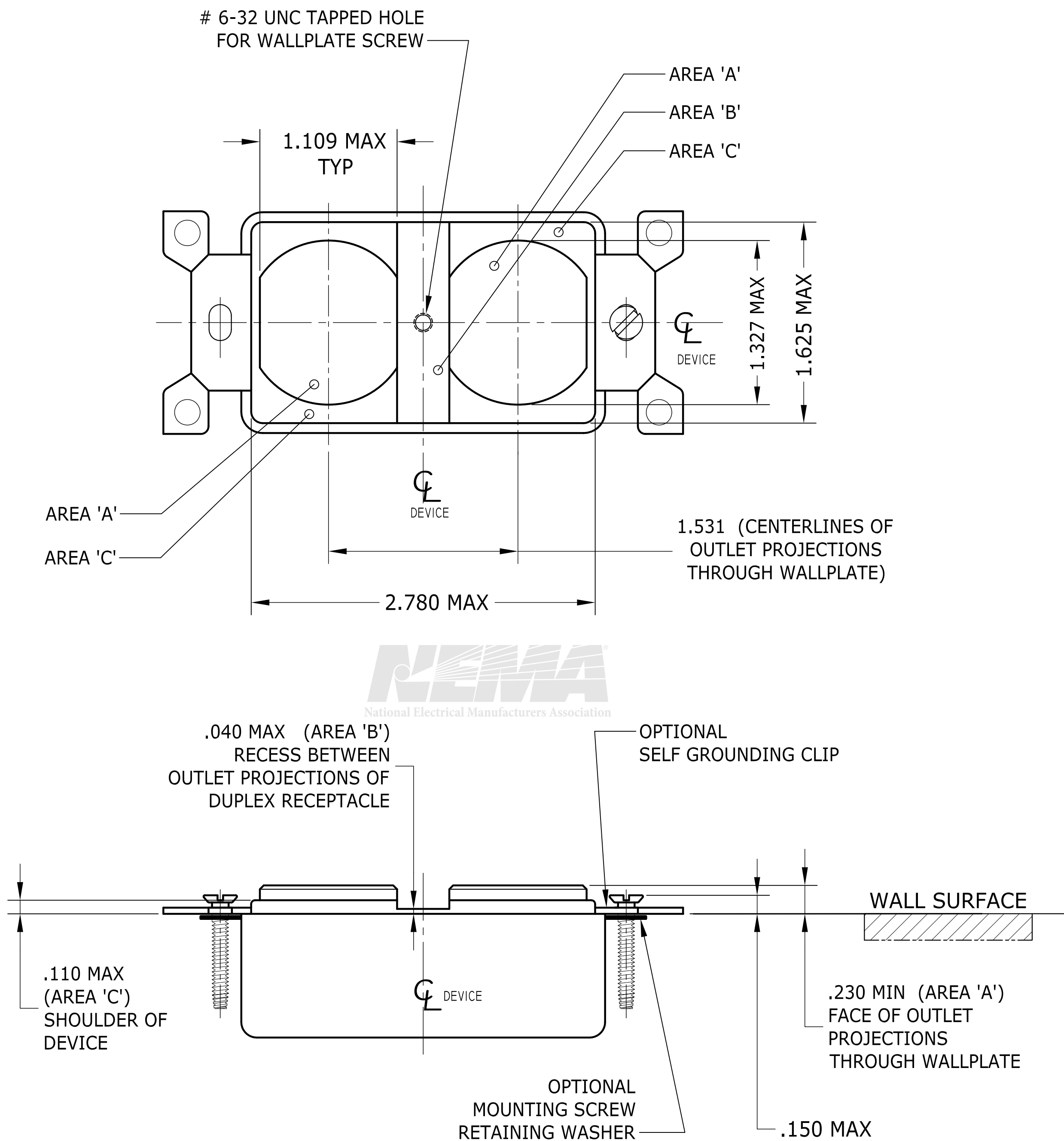
YOKE DIMENSIONS FOR 2 GANG RECEPTACLE MOUNTING "ON-CENTER FACE" TYPE



NOTE:

On single gang wallplate mounting, 2 1/8 face diameter, the yoke may also have tapped holes for wallplate screws EQUALLY located on the centerline of the face, spaced at 2.500 inch center to center.

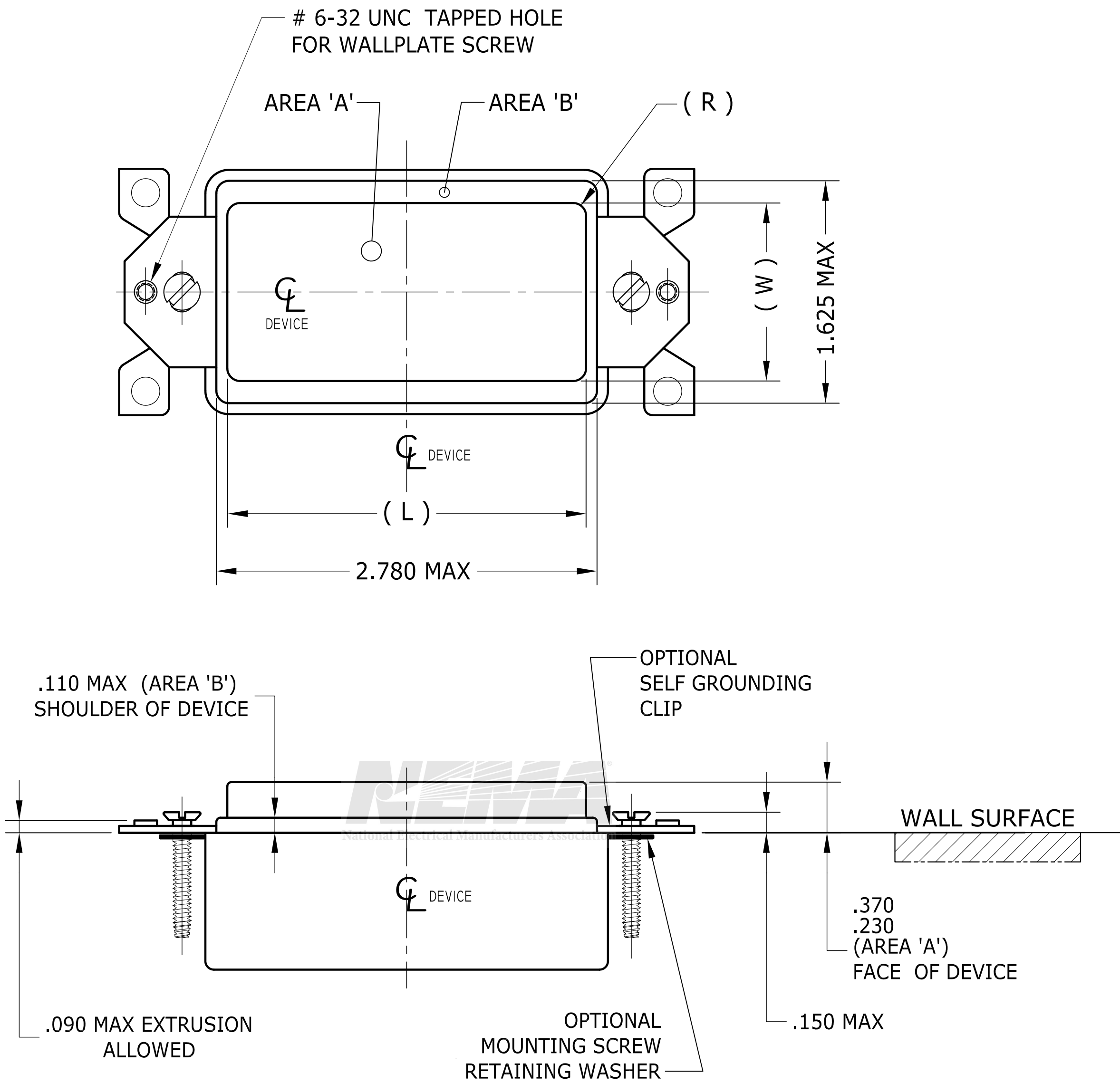
DIMENSIONS FOR FLUSH MOUNT DUPLEX DEVICES
RECEPTACLES, COMBINATION SWITCHES, ETC...



NOTES:

1. See page 8 for yoke dimensions.
2. Center line spacing of duplex outlet face configurations listed in NOTE #3 to be 1.531 MIN.
3. Typical duplex rectangular style configurations are:
STRAIGHT BLADE Configurations: _____ 1-15, 5-15, 5-20, 6-15, 6-20, 7-15
LOCKING Configurations : _____ L1-15, L2-20, L5-15, L6-15, L7-15, L11-15.

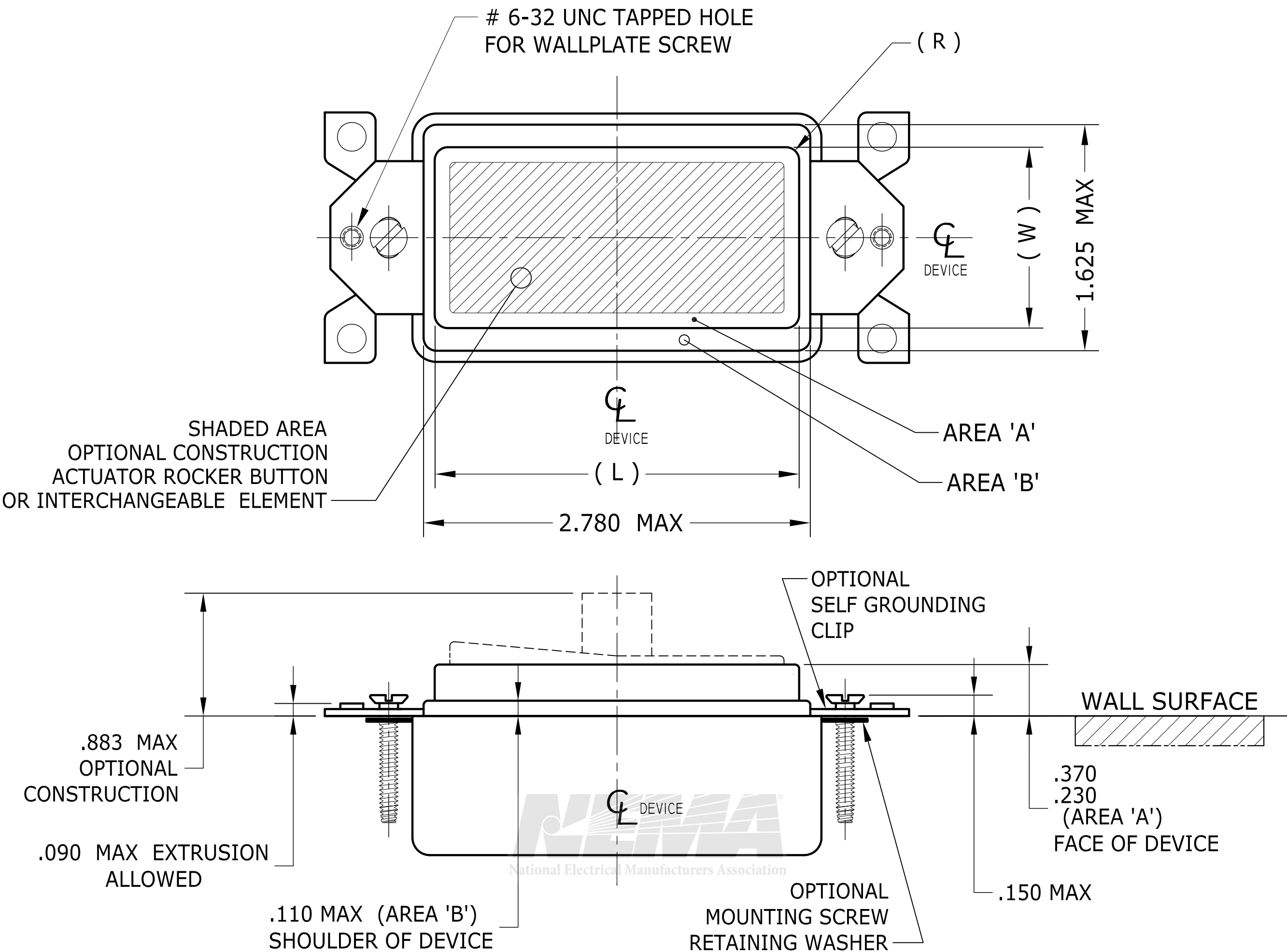
DIMENSIONS FOR FLUSH MOUNT RECTANGULAR FACE DEVICES
RECEPTACLES, SWITCHES, EXCLUDING GFCI'S, DIMMERS, MOTION SENSORS, ETC...



(W) MAX	(L) MAX	(R)	DESCRIPTION
1.300	2.620	0.094	DUPLEX DEVICE
1.060	2.880	0.082	TRIPLEX DEVICE

- NOTES:
1. See page 8 for yoke dimensions.
 2. Center line spacing of duplex outlet face configurations listed in NOTE #3 to be 1.531 MIN.
 3. Typical duplex rectangular style configurations are:
STRAIGHT BLADE Configurations: 1-15, 5-15, 5-20, 6-15, 6-20, 7-15
LOCKING Configurations: L1-15, L2-20, L5-15, L6-15, L7-15, L11-15.

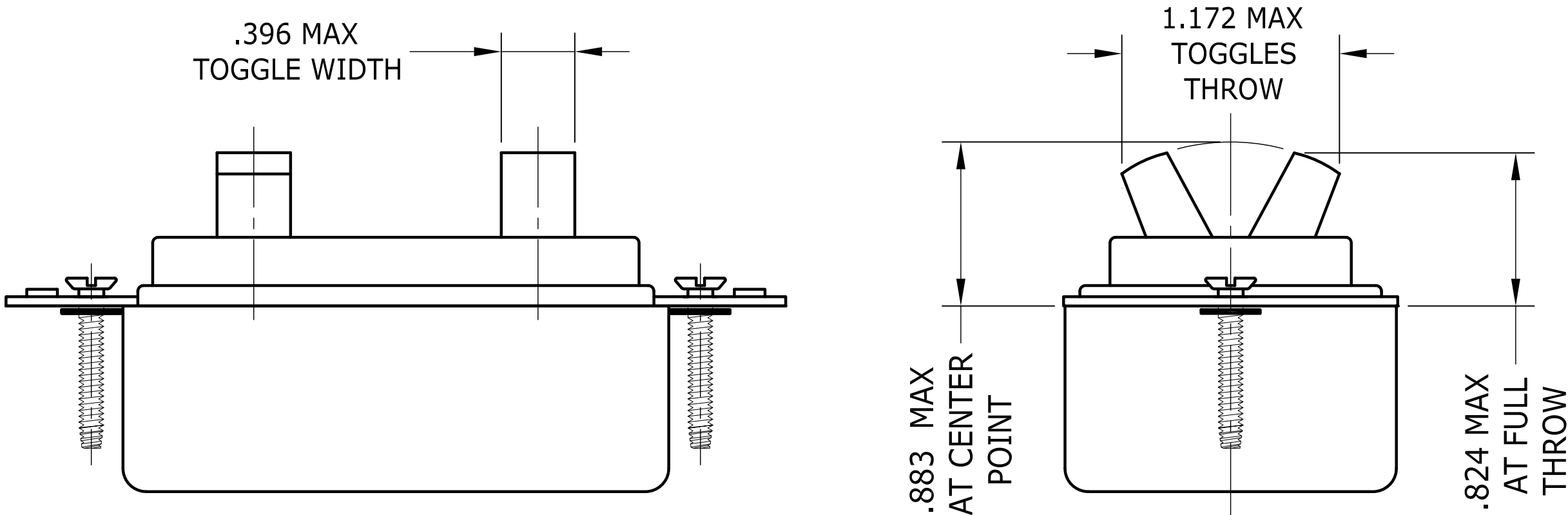
DIMENSIONS FOR RECTANGULAR FACE DEVICES
INCORPORATING PROTRUDING ACTUATORS



(W) MAX	(L) MAX	(R)	DESCRIPTION
1.300	2.620	0.094	DUPLEX DEVICE
1.060	2.880	0.082	TRIPLEX DEVICE

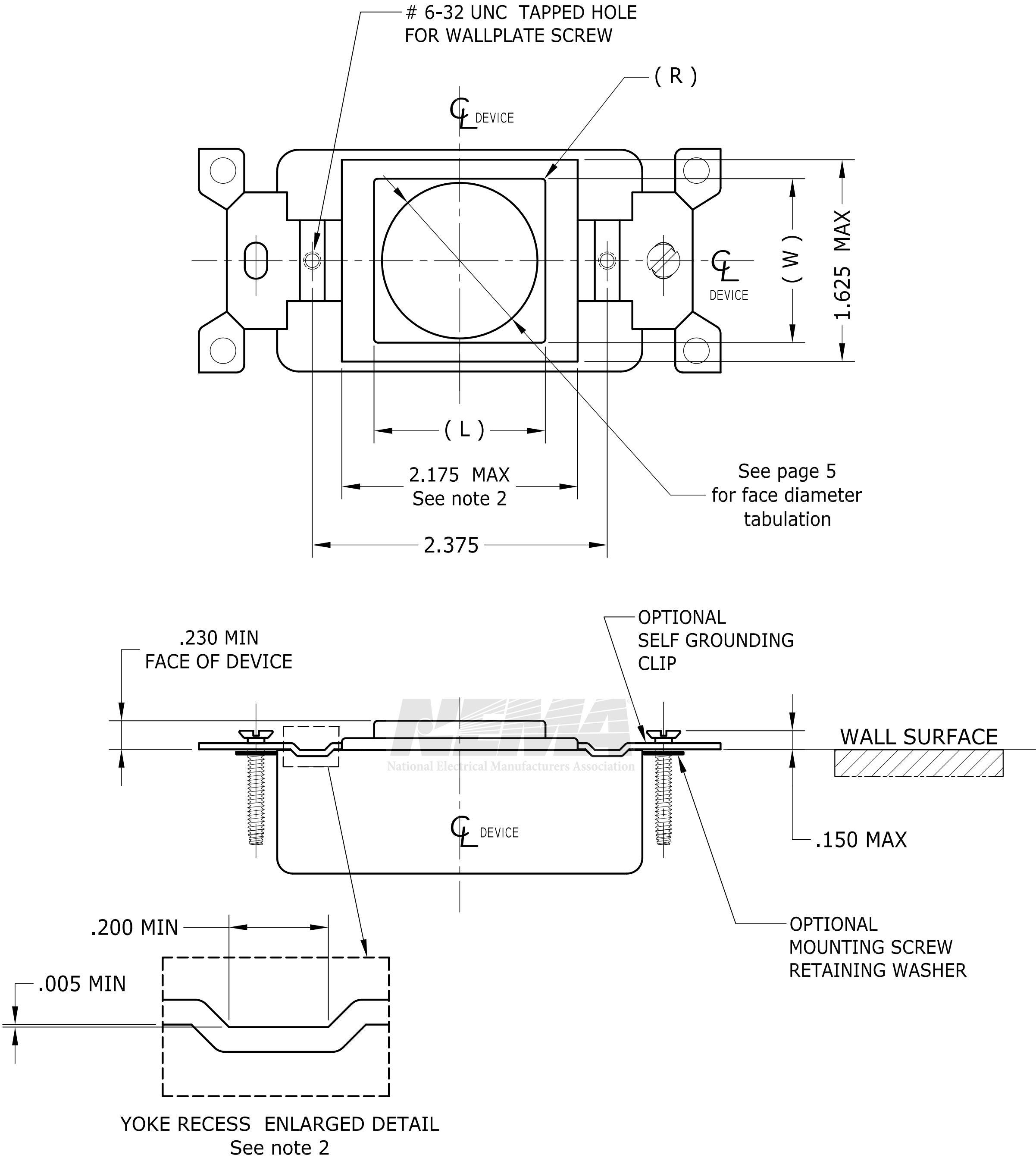
DIMENSIONS FOR RECTANGULAR FACE DEVICES
INCORPORATING SWITCH TOGGLES

(DIMENSIONS NOT SHOWN, SAME AS ABOVE)



NOTE: See page 8 for yoke dimensions.

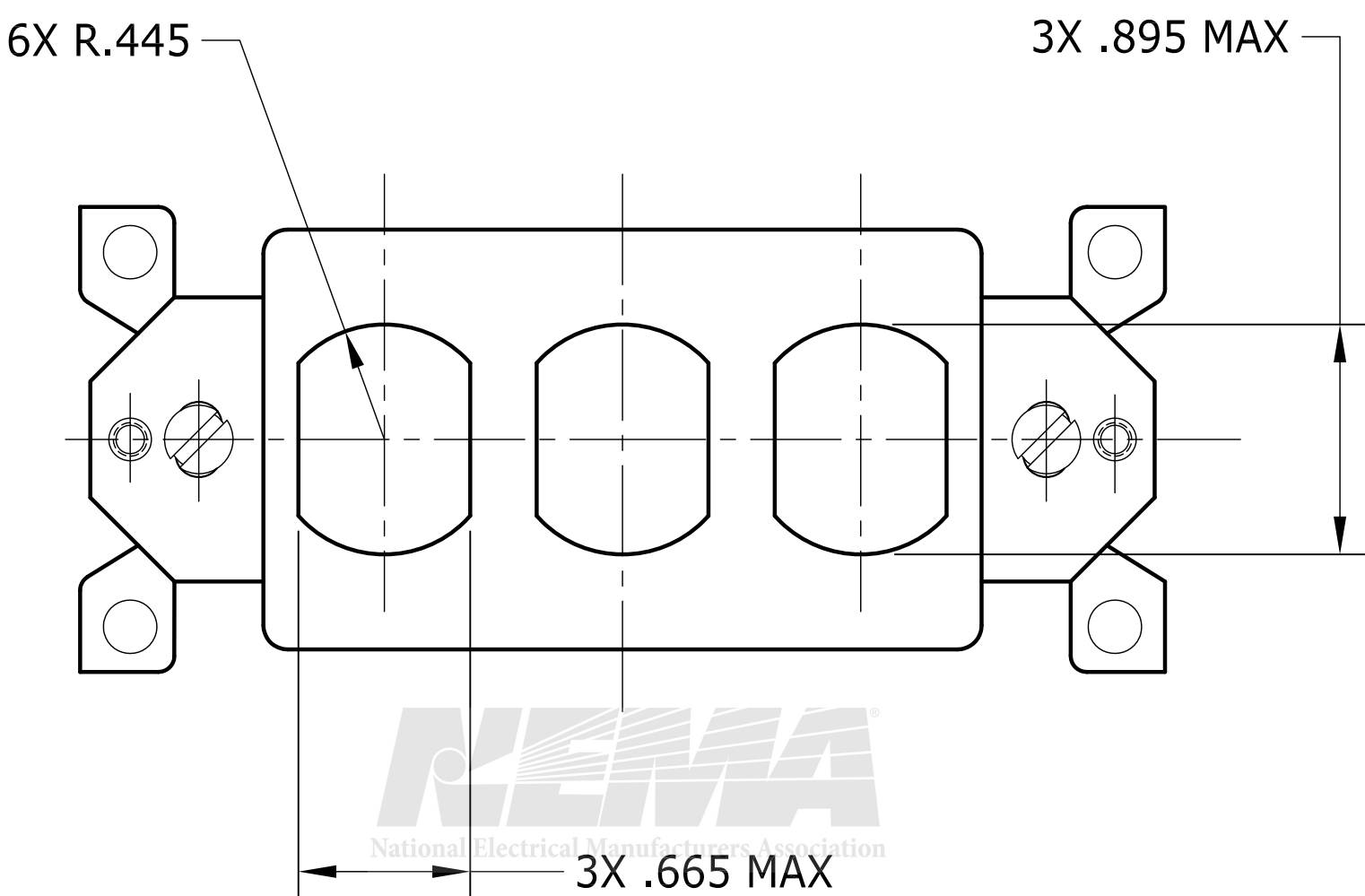
DIMENSIONS FOR ROUND AND RECTANGULAR FACE
SINGLE DEVICES



(W) MAX	(L) MAX	(R)	DESCRIPTION
1.320	1.380	0.078	SINGLE RECEPTACLE
0.396	0.915	0	SWITCH

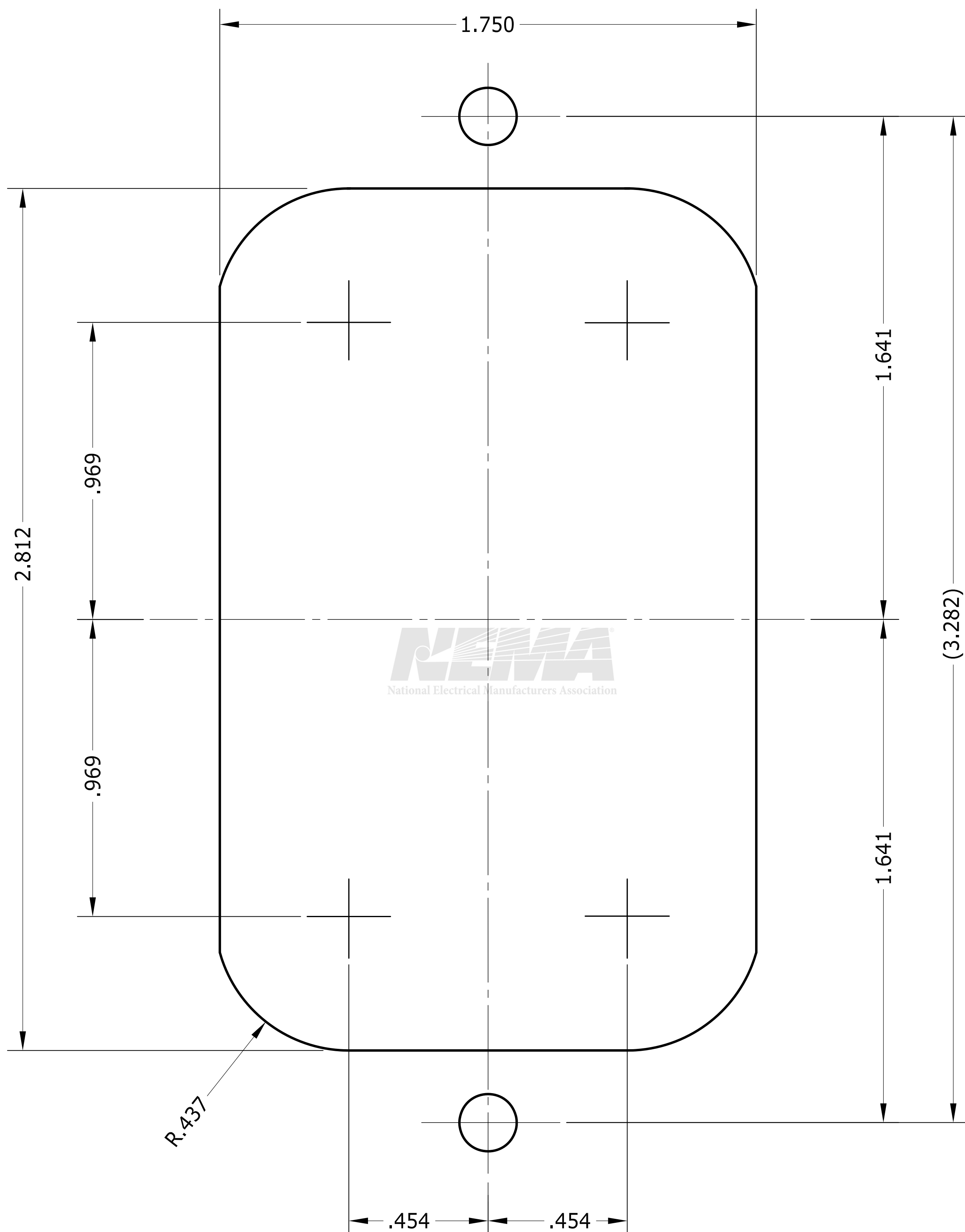
- NOTES:
1. See page 8 for yoke dimensions.
 2. These dimensions are intended for straight blade single receptacles and switches to clear the reinforcing ribs in plastic plate.

DIMENSIONS FOR INTERCHANGEABLE TYPE
SINGLE, DUPLEX, AND TRIPLEX DEVICES



NOTE: See page 8 for yoke dimensions.

WIRING DEVICE MAXIMUM ENVELOPE DIMENSION



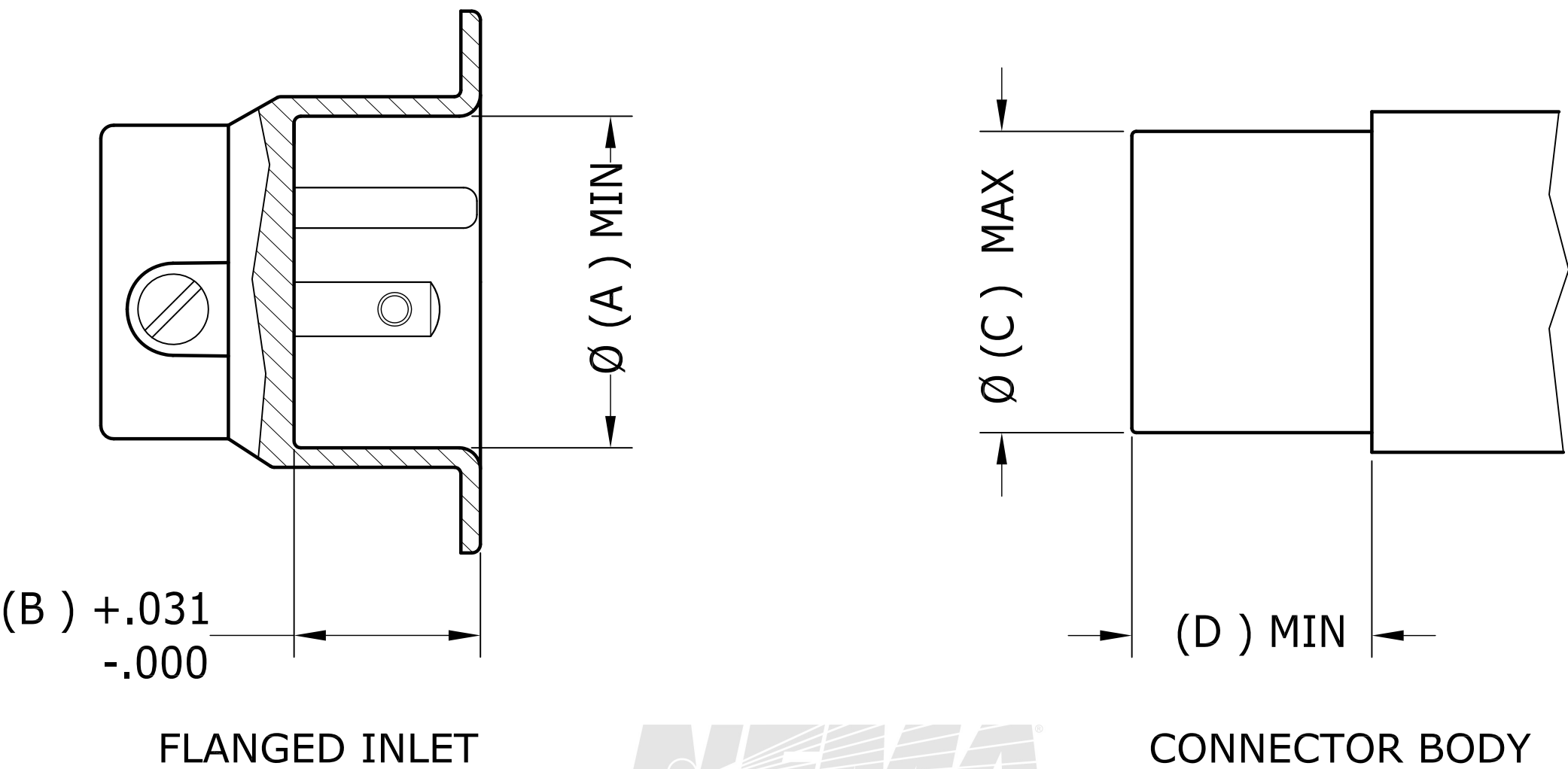
NOTE:

This standard corresponds to NEMA standards publication OS-1 sheet-steel outlet boxes, device boxes, covers and box supports, standard for minimum box/cover face opening, and does not address electrical clearances. Available space at depths within the box may be further reduced by accessory hardware such as machine screws, nails, cable clamps, fixture studs, etc..

DIMENSIONS FOR FLANGED INLETS AND CONNECTOR BODIES

Blade dimensions shall conform with the dimensions for plug blades of the same rating as shown in individual configuration rating. The male base shall accept a cylinder of diameter 'C' described about the center of the plug cap configuration of the same rating for a depth not less than dimension 'B'.

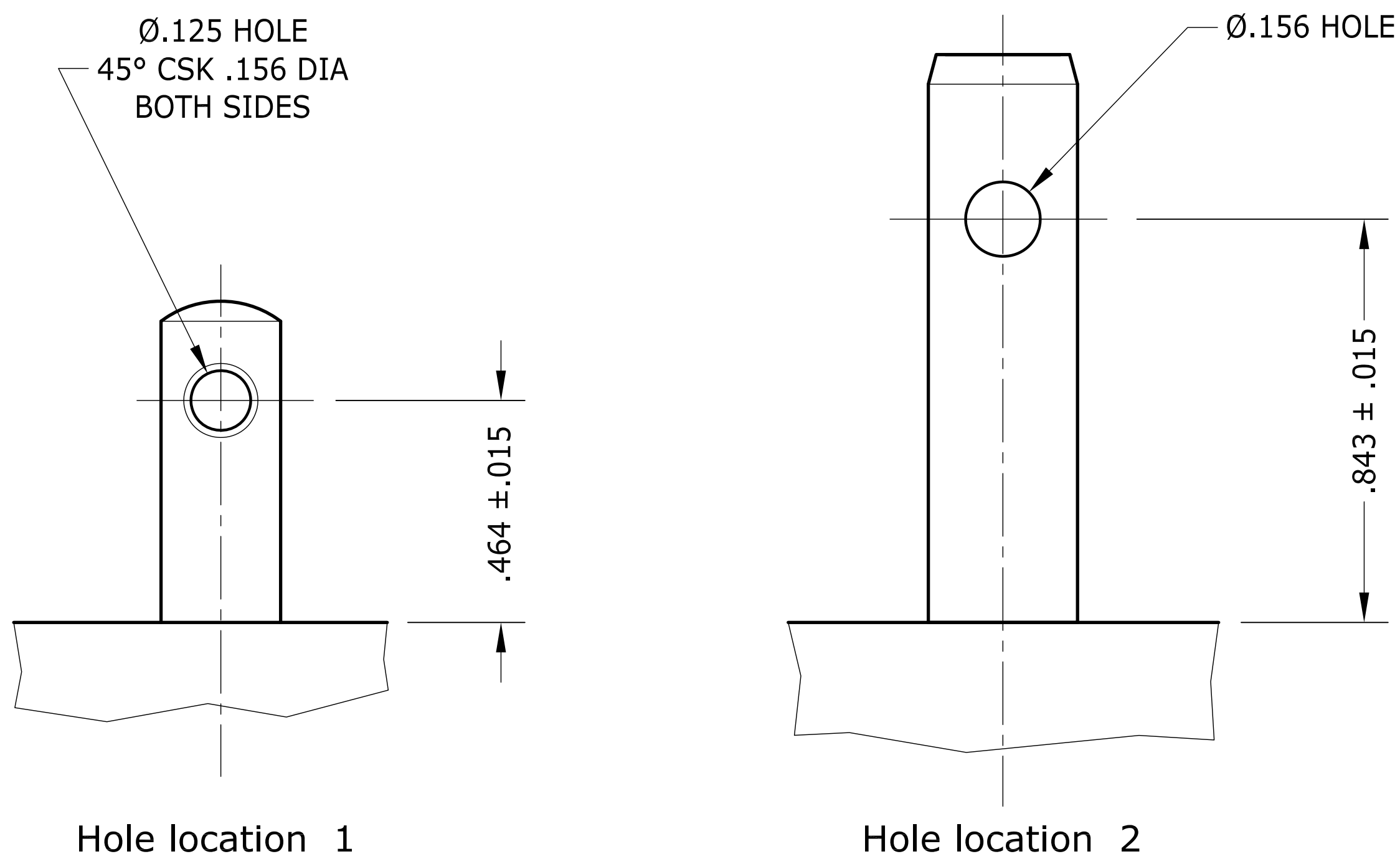
The connector body shall fit within a circle of diameter 'C' described about the center of the receptacle configuration of the same rating for a length 'D' not less than 0.015 inch plus the maximum length of dimension 'B'.



NOTE: Illustration above shows overall dimensions for NEMA Configuration 5-15 Flanged Inlet and Connector.
Chart below lists affected NEMA Configurations, and their respective A, B, C, D, values.

NEMA CONFIGURATION NUMBER	DIMENSIONS			
	A Ø MIN	B +.031 - .000	C Ø MAX	D MIN
ML1	0.990	0.468	0.970	D min = B max + .015
ML2, ML3	1.150	0.468	1.130	
1-15, 2-15, 5-15, 5-20, 6-15, 6-20, 7-15, 11-15, 11-20, 14-15, 15-15, 18-15, 24-15, 24-20 and L1-15, L2-20, L5-15, L6-15, L7-15, L11-15	1.550	0.843	1.531	
2-20, 7-20, 10-20, 14-20, 15-20, 18-20	2.030	0.875	2.010	
2-30, 5-30, 6-30, 6-50, 7-30, 7-50, 10-30, 10-50, 11-30, 11-50, 14-30, 14-50, 14-60, 15-30, 15-50, 15-60, 18-30, 18-50, 18-60, 24-30, 24-50	2.620	1.406	2.600	
L5-20, L6-20, L7-20, L8-20, L9-20, L10-20, L11-20, L12-20	1.880	0.921	1.860	
L5-30, L6-30, L7-30, L8-30, L9-30, L10-30, L11-30, L12-30, L13-30, L25-30 FSL1-30, FSL2-30	1.880	1.000	1.860	
L14-20, L15-20, L16-20, L18-20, L19-20, L20-20, L21-20, L22-20, L23-20, L24-20	2.000	0.921	1.980	
L14-30, L15-30, L16-30, L17-30, L18-30, L19-30, L20-30, L21-30, L22-30, L23-30 L26-30, FSL3-30, FSL4-30	2.000	1.000	1.980	

FLAT BLADE HOLE LOCATIONS GENERAL INFORMATION



BLADE HOLE LOCATION CHART

CONFIGURATIONS USING HOLE LOCATION 1

1-15, 2-15, 5-15, 6-15, 7-15, 11-15, 14-15, 15-15, 18-15, 24-15
1-20, 2-20, 5-20, 5-20ALT, 6-20, 6-20ALT, 7-20, 10-20, 11-20, 14-20, 15-20, 18-20, 24-20

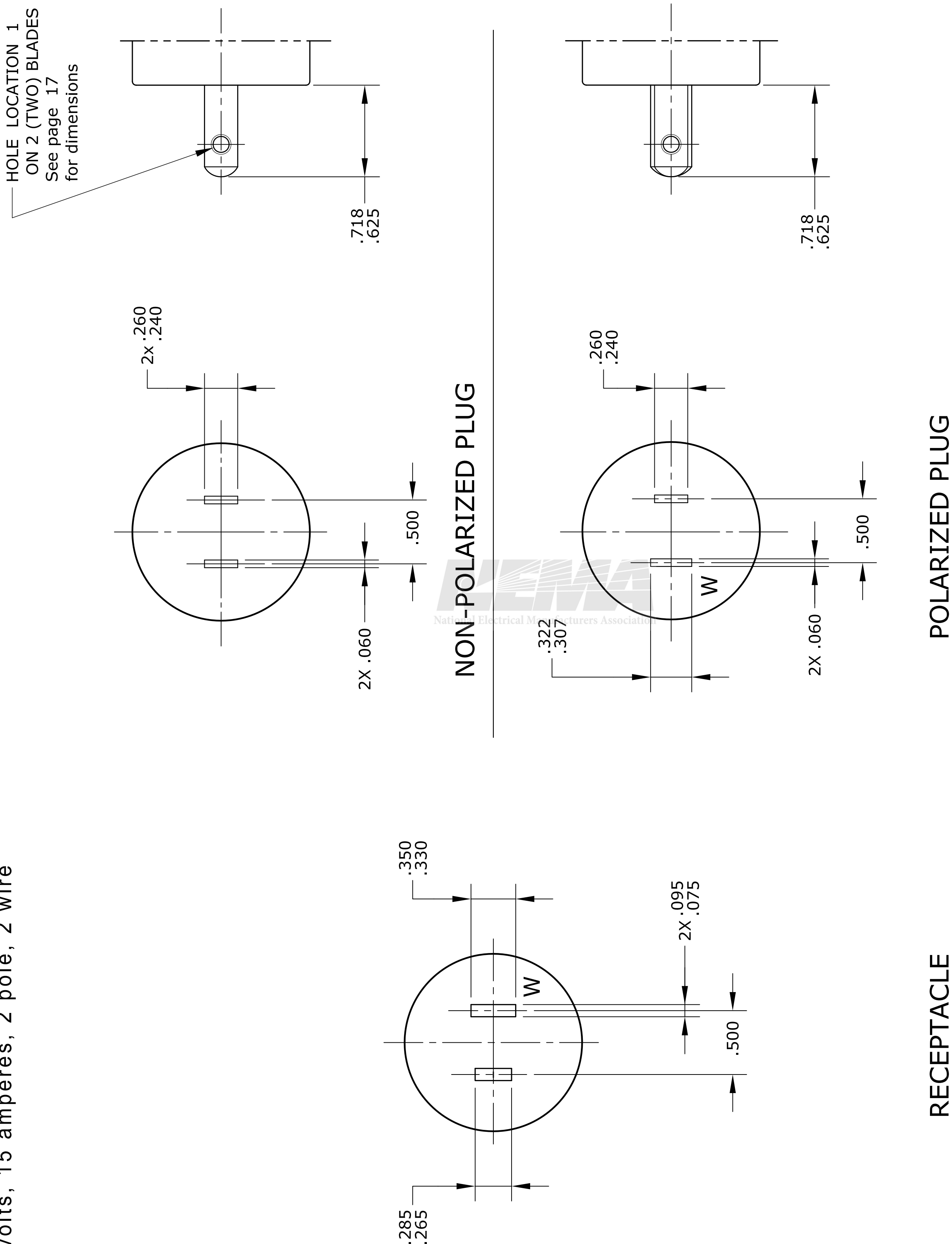
CONFIGURATIONS USING HOLE LOCATION 2

1-30, 2-30, 5-30, 6-30, 7-30, 10-30, 11-30, 14-30, 15-30, 18-30, 24-30
5-50, 6-50, 7-50, 10-50, 11-50, 14-50, 15-50, 18-50, 24-50
14-60, 15-60, 18-60

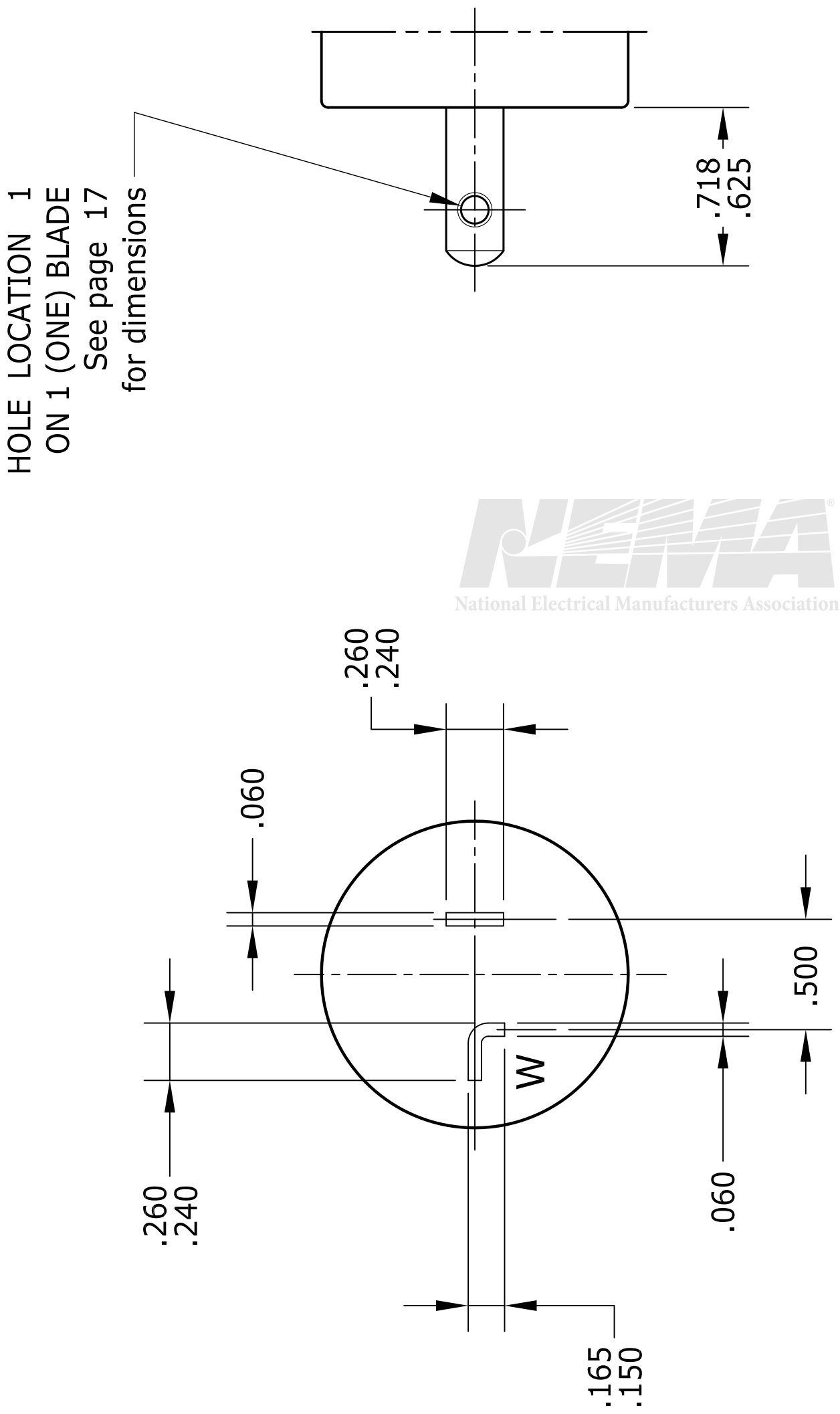
NOTE:

Hole in flat blade is optional, and is intended for manufacturing purposes only. However if used it must be located as per dimensions shown above.

FIGURE 1-15
PLUG AND RECEPTACLE
125 volts, 15 amperes, 2 pole, 2 wire



NOTE: For typical duplex or rectangular style devices see pages No. 10, 11, and 12.

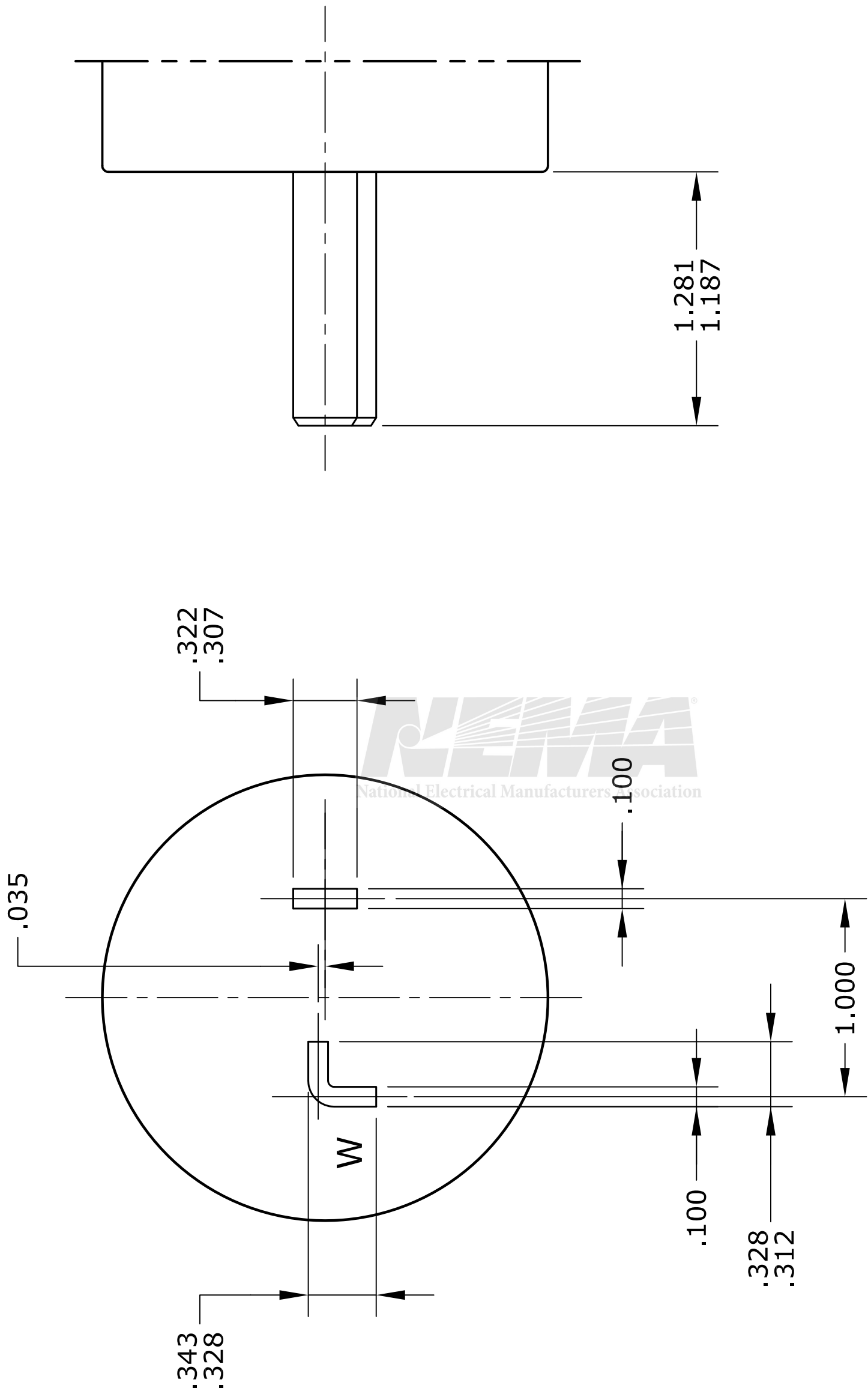


PLUG

NOTE: This plug mates with receptacle configuration 5-20

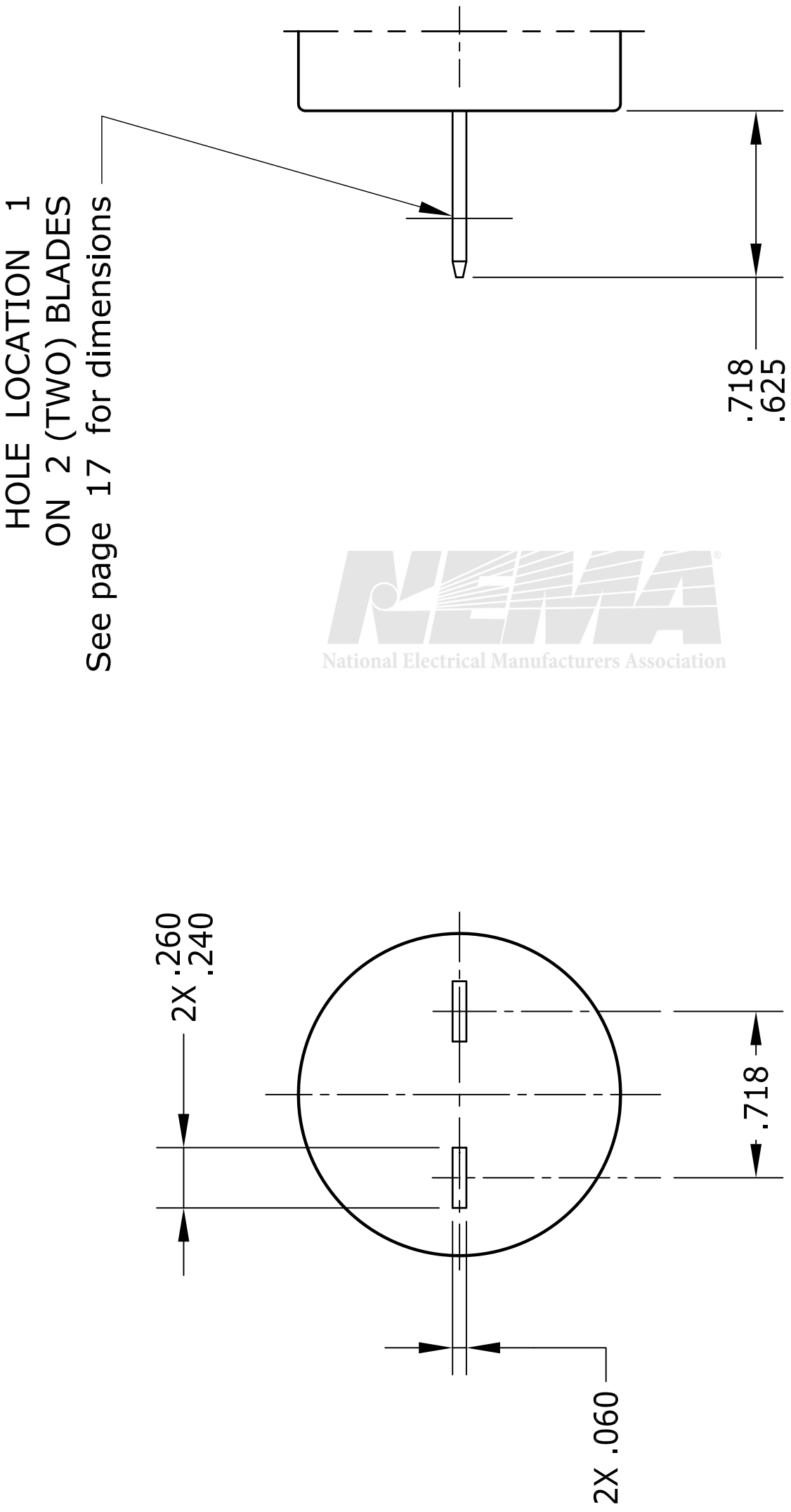
FIGURE 1-20
PLUG
125 volts, 20 amperes, 2 pole, 2 wire

FIGURE 1-30
PLUG
125 volts, 30 amperes, 2 pole, 2 wire



PLUG

NOTE: This plug mates with receptacle configuration 5-30.

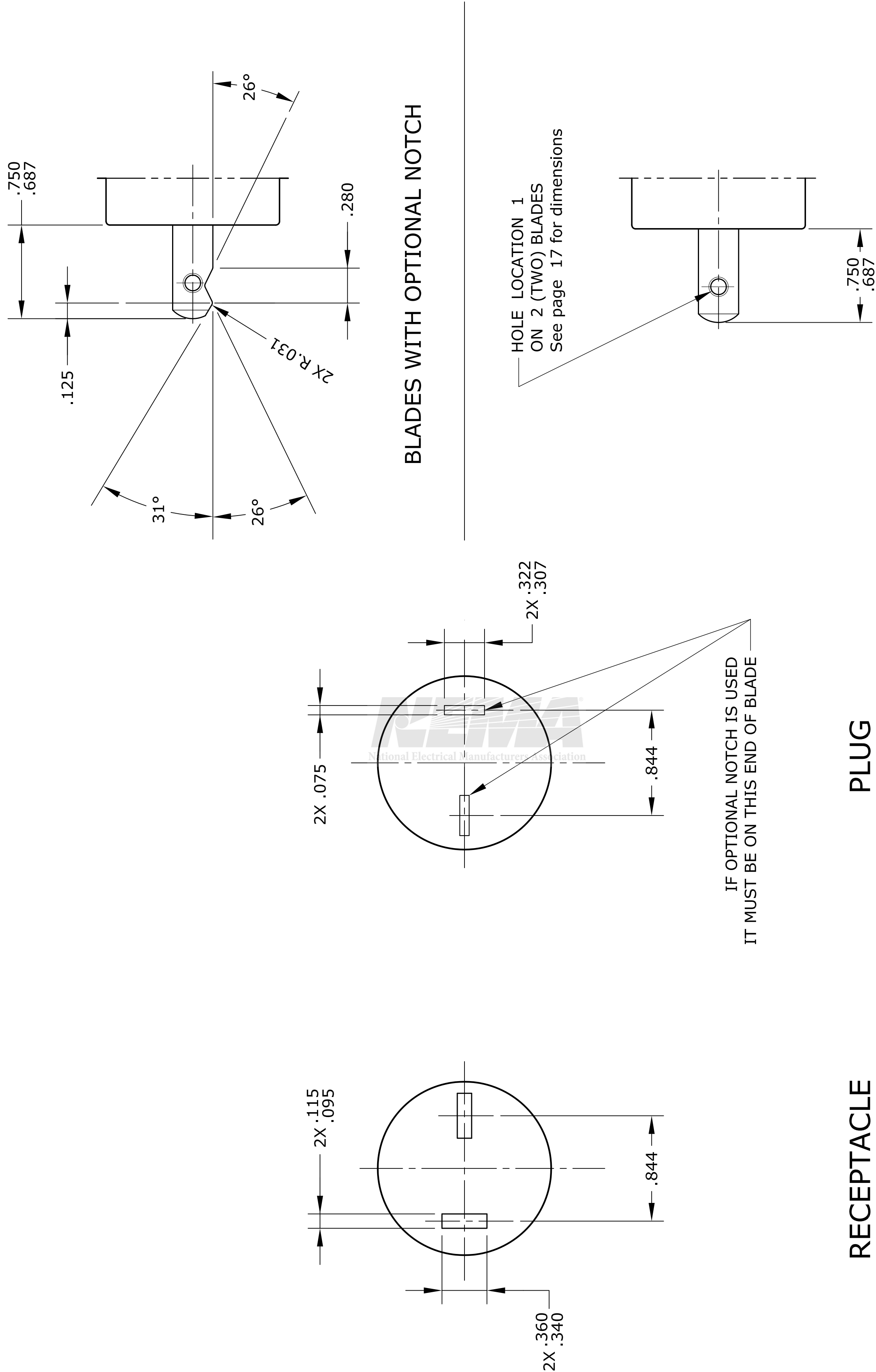


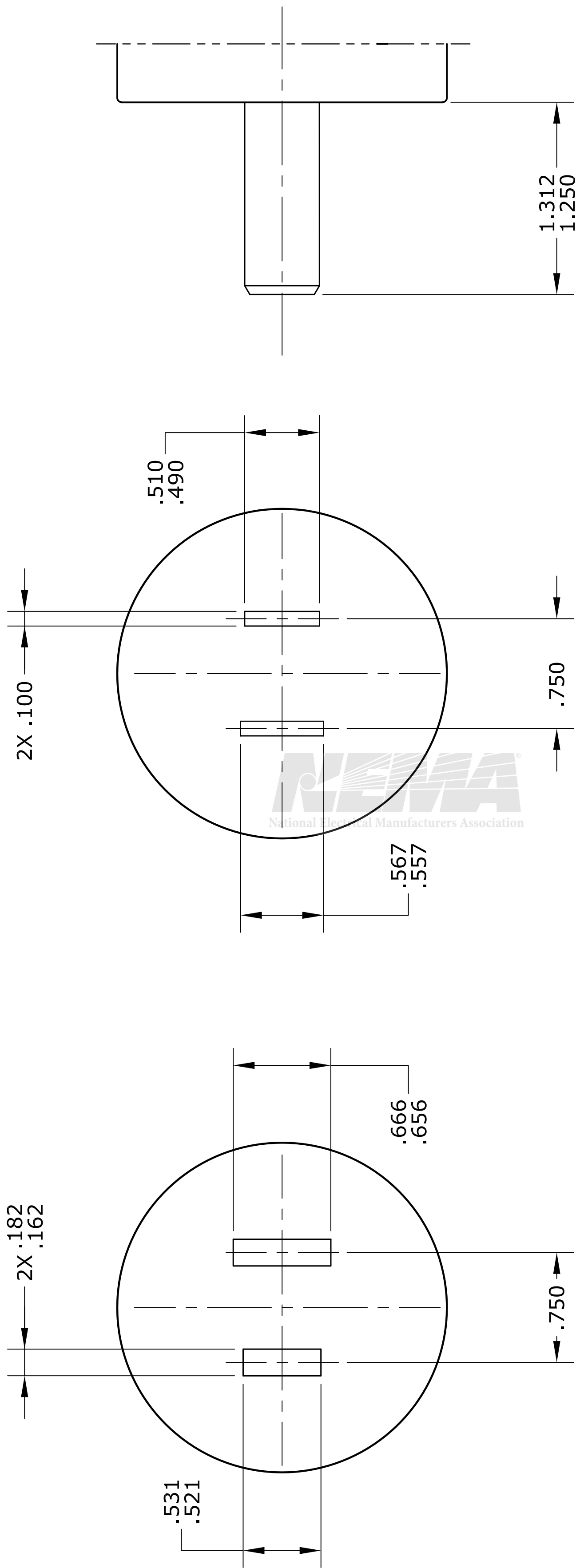
PLUG

NOTE: This plug mates with receptacle configuration 6-15

FIGURE 2-15
PLUG
250 volts, 15 amperes, 2 pole, 2 wire

FIGURE 2-20
PLUG AND RECEPTACLE
250 volts, 20 amperes, 2 pole, 2 wire



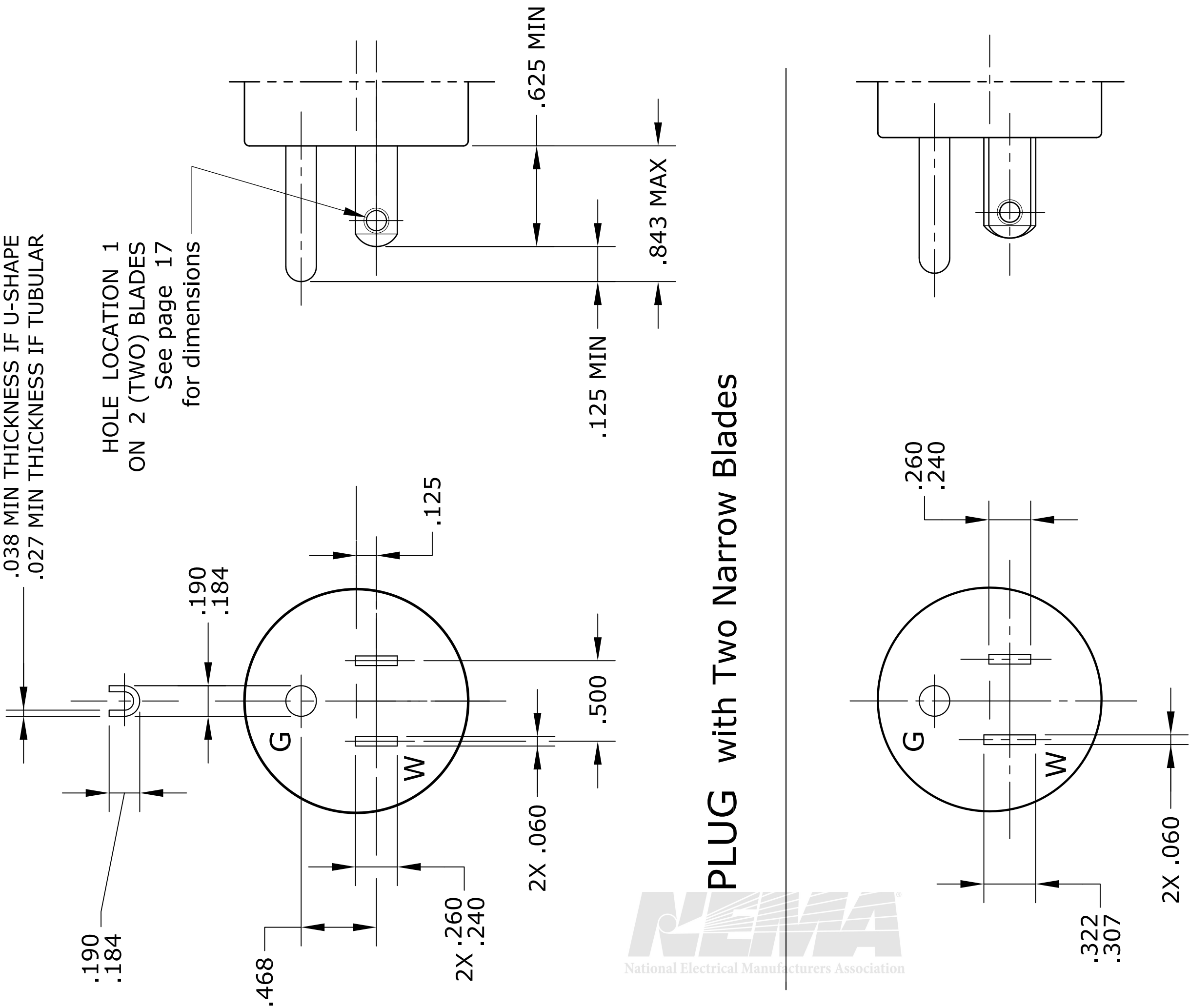


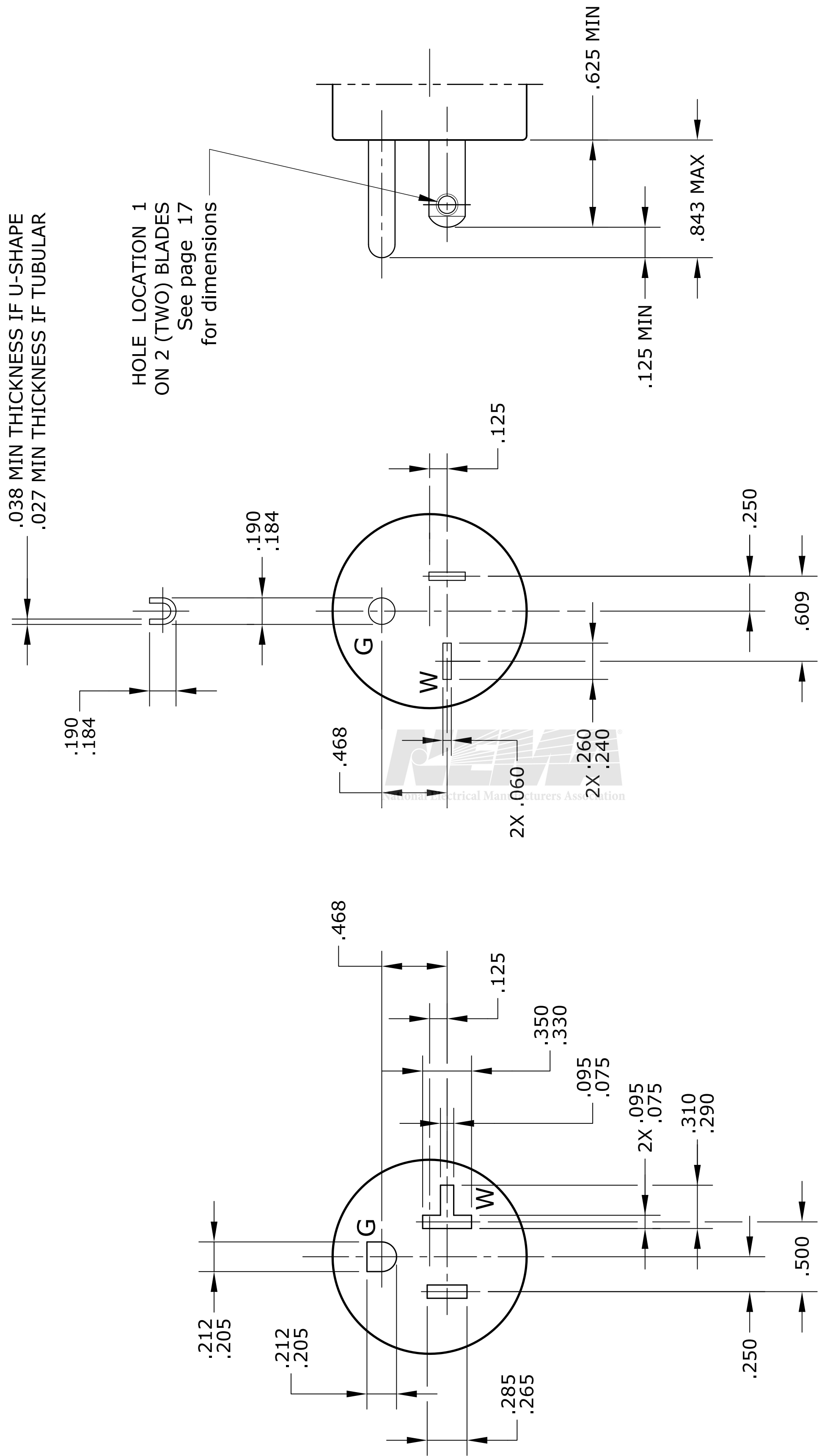
PLUG

RECEPTACLE

FIGURE 2-30
PLUG AND RECEPTACLE
250 volts, 30 amperes, 2 pole, 2 wire

FIGURE 5-15
PLUG AND RECEPTACLE
125 volts, 15 amperes, 2 pole, 3 wire, Grounding type





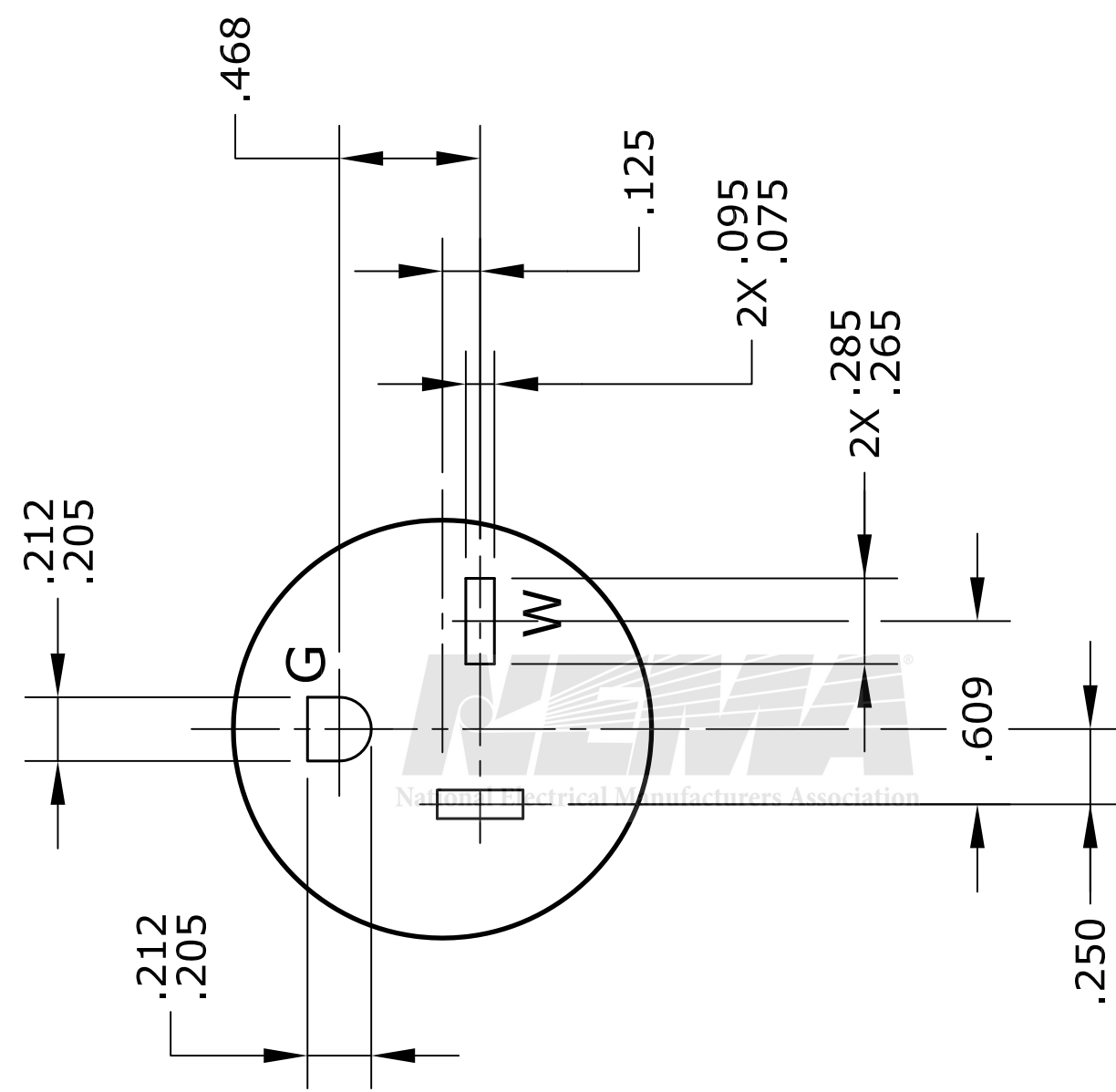
RECEPTACLE

PLUG

NOTE: For typical duplex or rectangular style devices see pages No. 10, 11, and 12

FIGURE 5-20
PLUG AND RECEPTACLE
125 volts, 20 amperes, 2 pole, 3 wire, Grounding type

**FIGURE 5-20 ALT (ALTERNATE CONSTRUCTION - CANADA)
RECEPTACLE**
125 volts, 20 amperes, 2 pole, 3 wire, Grounding type



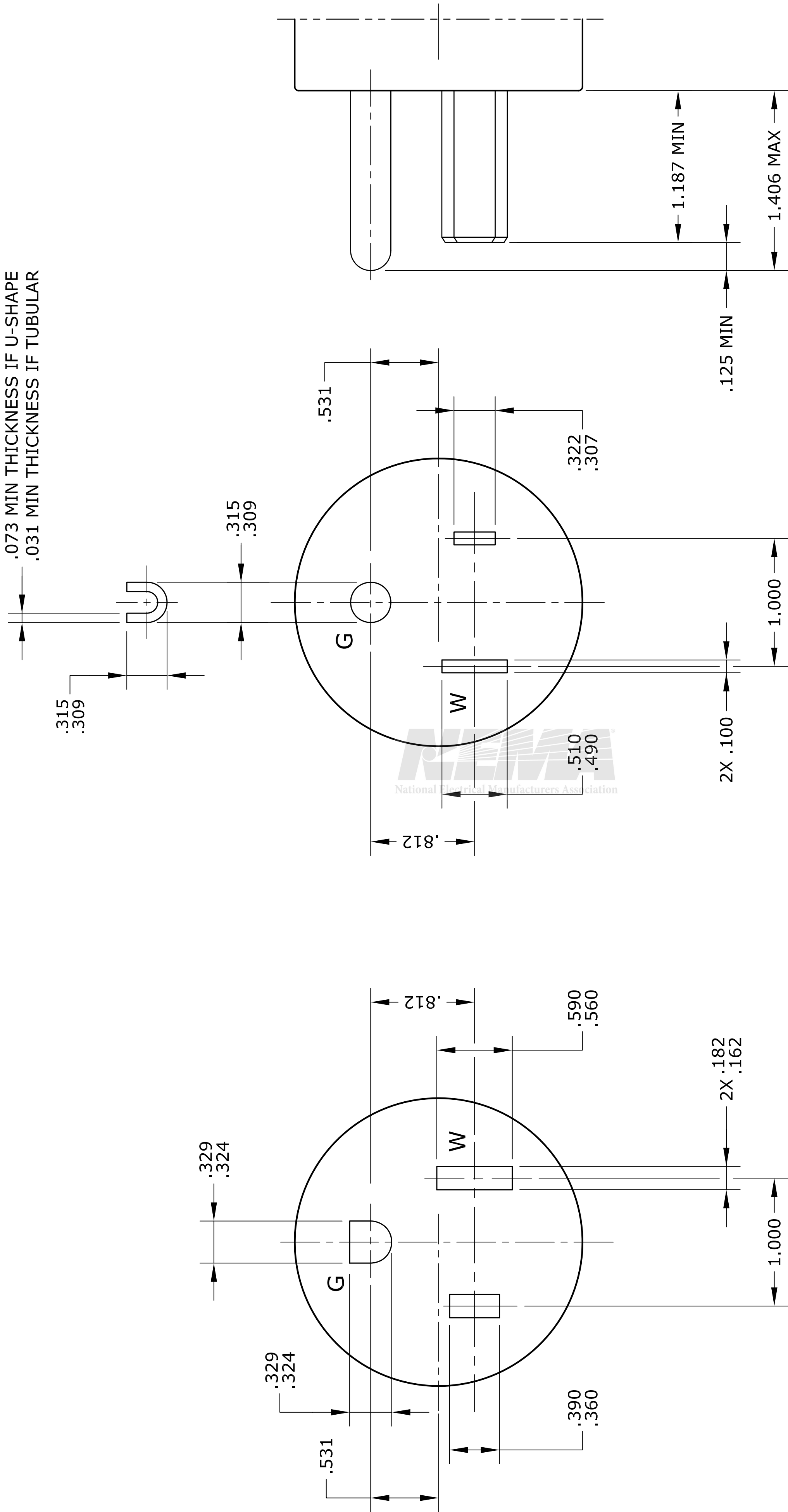
RECEPTACLE

NOTE: For typical duplex or rectangular style devices see pages 10, 11, and 12



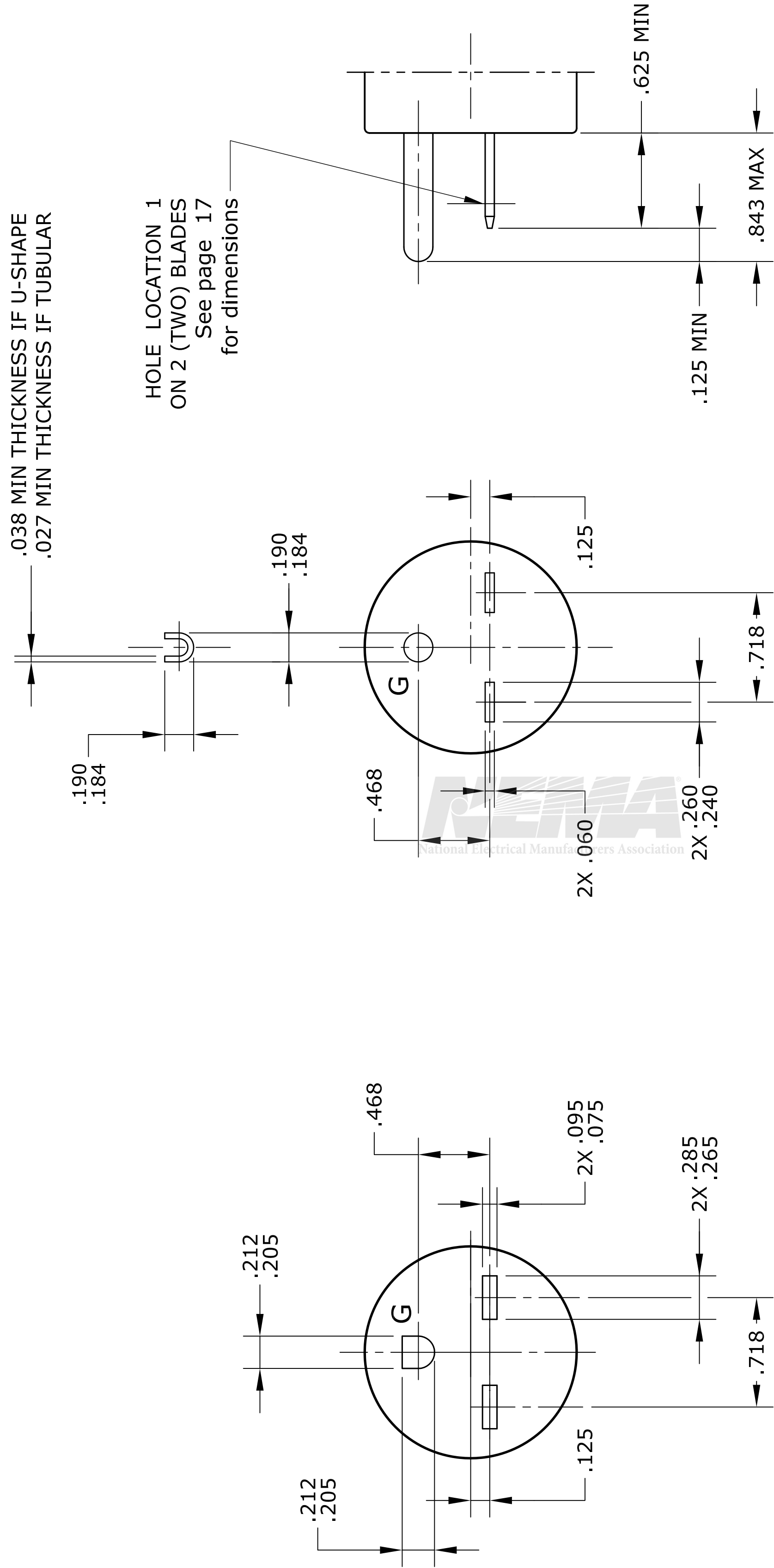
FIGURE 5-30
PLUG AND RECEPTACLE
125 volts, 30 amperes, 2 pole, 3 wire, Grounding type

FIGURE 5-50
PLUG AND RECEPTACLE
125 volts, 50 amperes, 2 pole, 3 wire, Grounding type



RECEPTACLE

PLUG



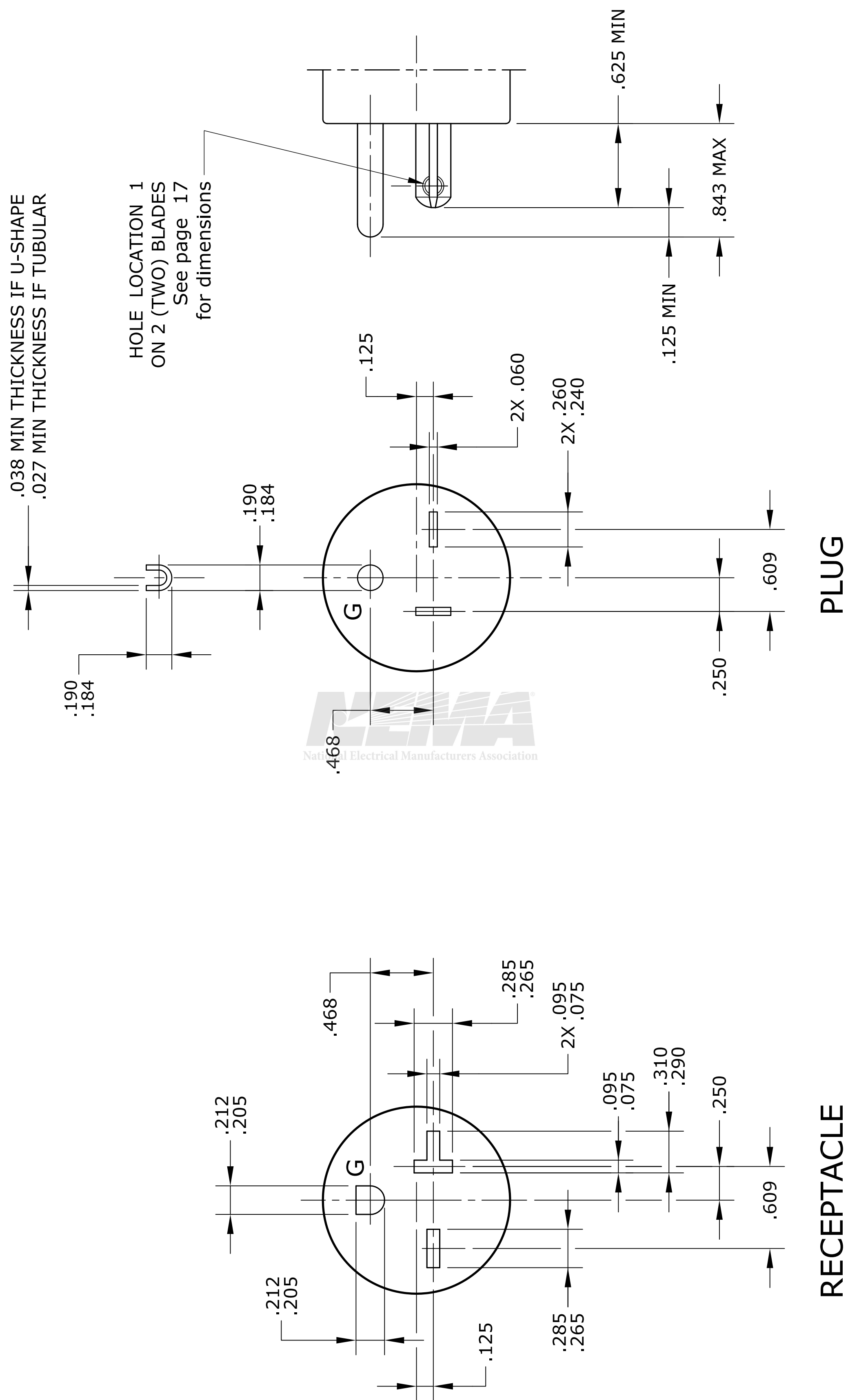
RECEPTACLE

PLUG

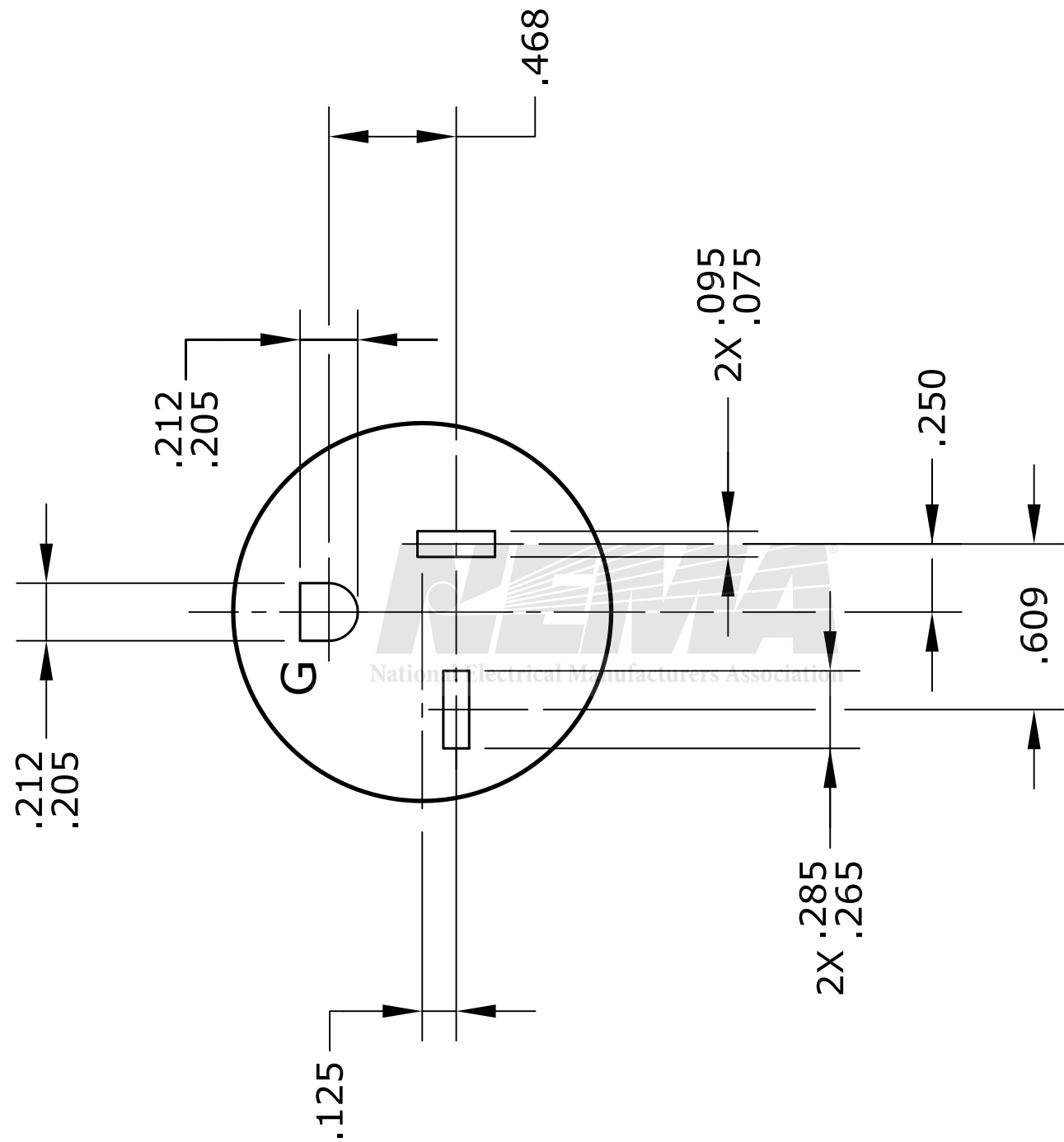
NOTE: For typical duplex or rectangular style devices see pages No. 10, 11, and 12

FIGURE 6-15
PLUG AND RECEPTACLE
250 volts, 15 amperes, 2 pole, 3 wire, Grounding type

FIGURE 6-20
PLUG AND RECEPTACLE
250 volts, 20 amperes, 2 pole, 3 wire, Grounding type



NOTE: For typical duplex or rectangular style devices see pages No. 10, 11, and 12

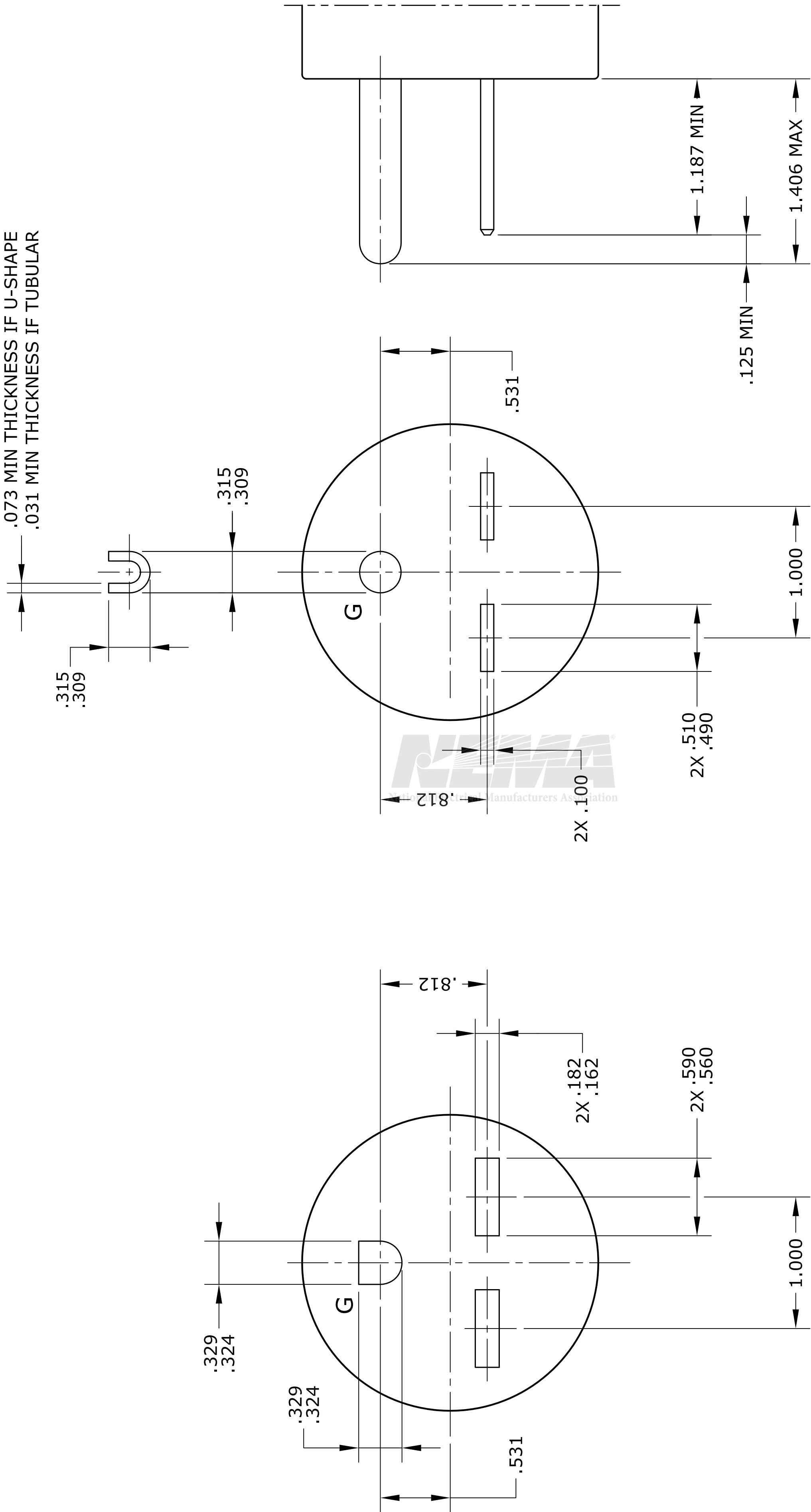


RECEPTACLE

NOTE: For typical duplex or rectangular style devices see pages No. 10, 11, and 12

FIGURE 6-20 ALT (ALTERNATE CONSTRUCTION - CANADA)
RECEPTACLE
250 volts, 20 amperes, 2 pole, 3 wire, Grounding type

FIGURE 6-30
PLUG AND RECEPTACLE
250 volts, 30 amperes, 2 pole, 3 wire, Grounding type



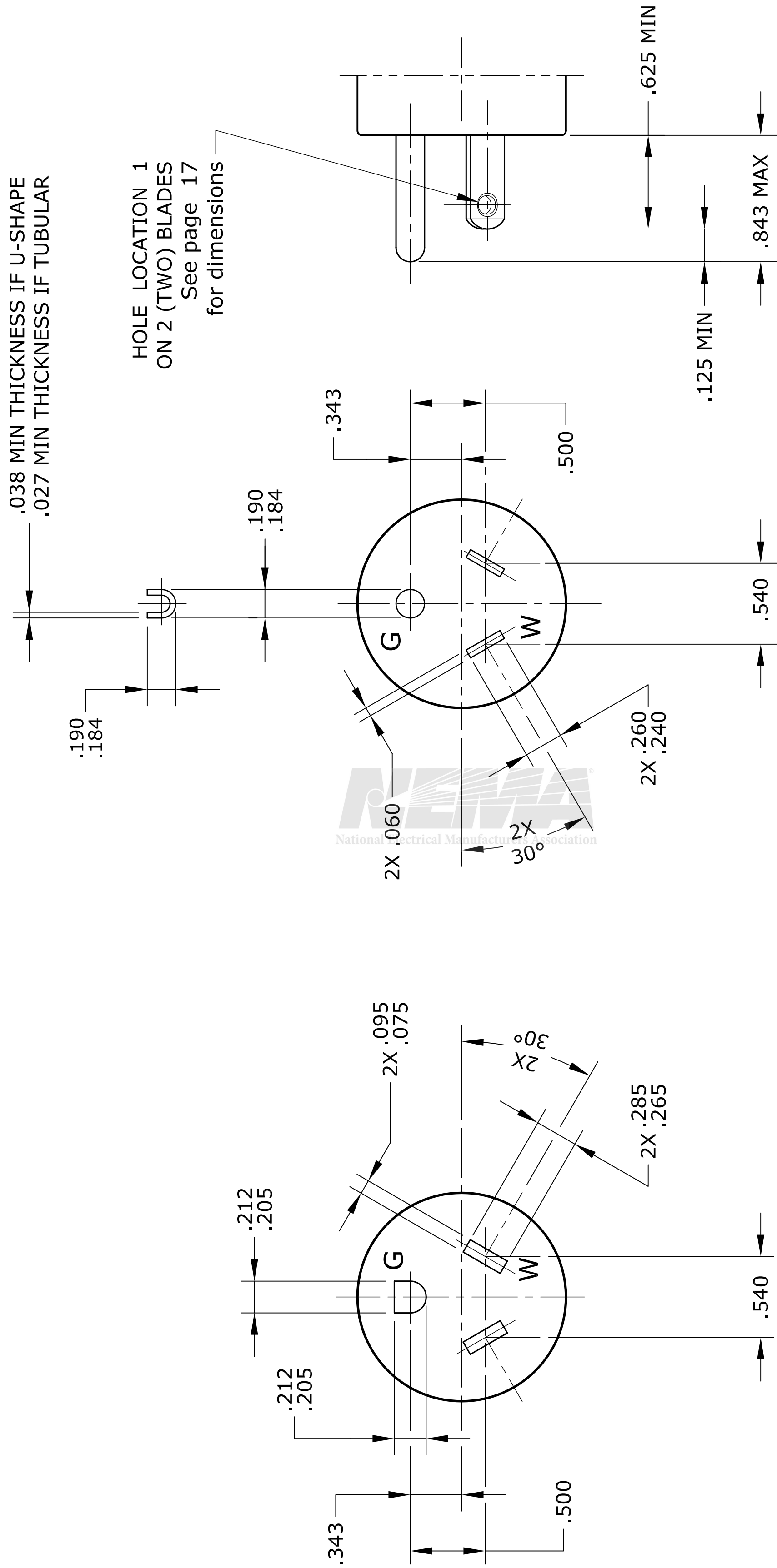
PLUG

RECEPTACLE



FIGURE 6-50
PLUG AND RECEPTACLE
250 volts, 50 amperes, 2 pole, 3 wire, Grounding type

FIGURE 7-15
PLUG AND RECEPTACLE
277 volts AC, 15 amperes, 2 pole, 3 wire, Grounding type



RECEPTACLE

PLUG

NOTE: For typical duplex or rectangular style devices see pages No. 10, 11, and 12

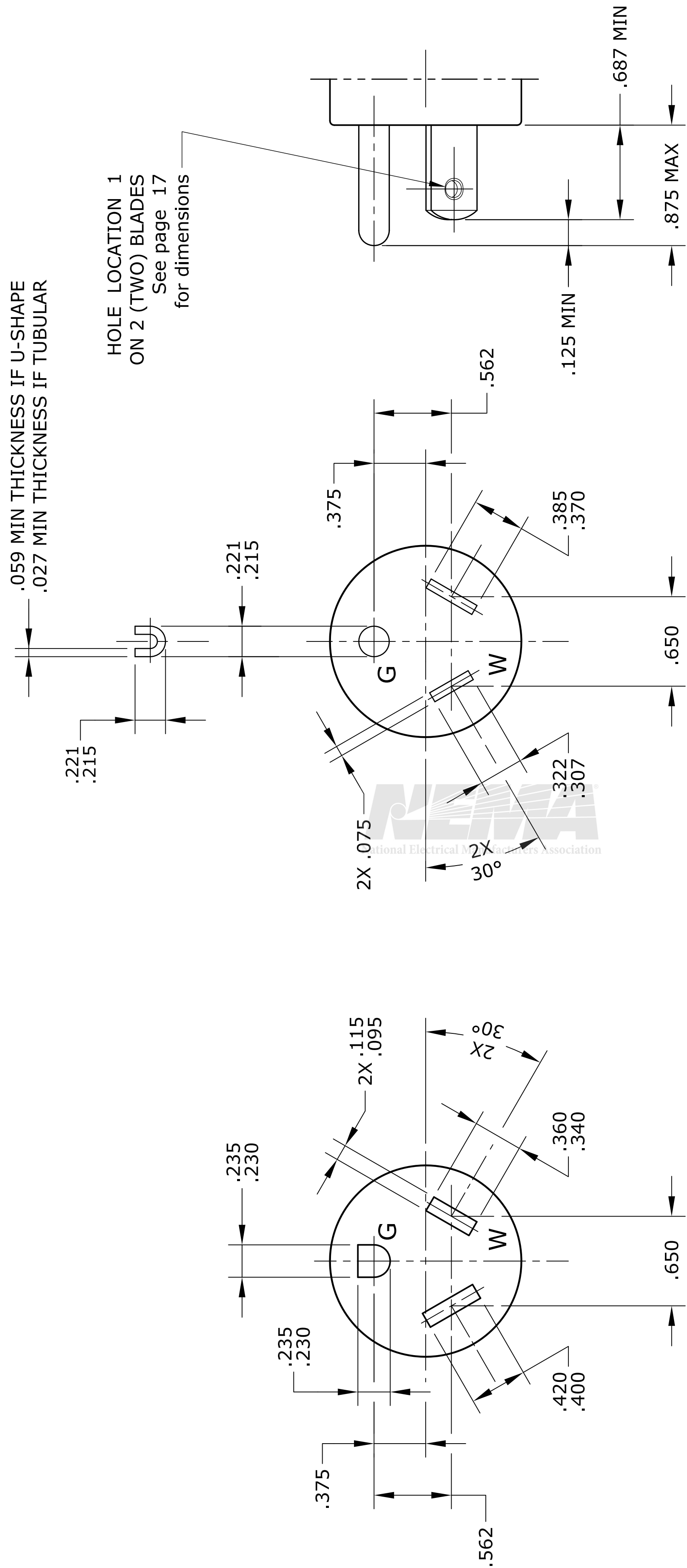


FIGURE 7-20
PLUG AND RECEPTACLE
277 volts AC, 20 amperes, 2 pole, 3 wire, Grounding type

FIGURE 7-30



PLUG

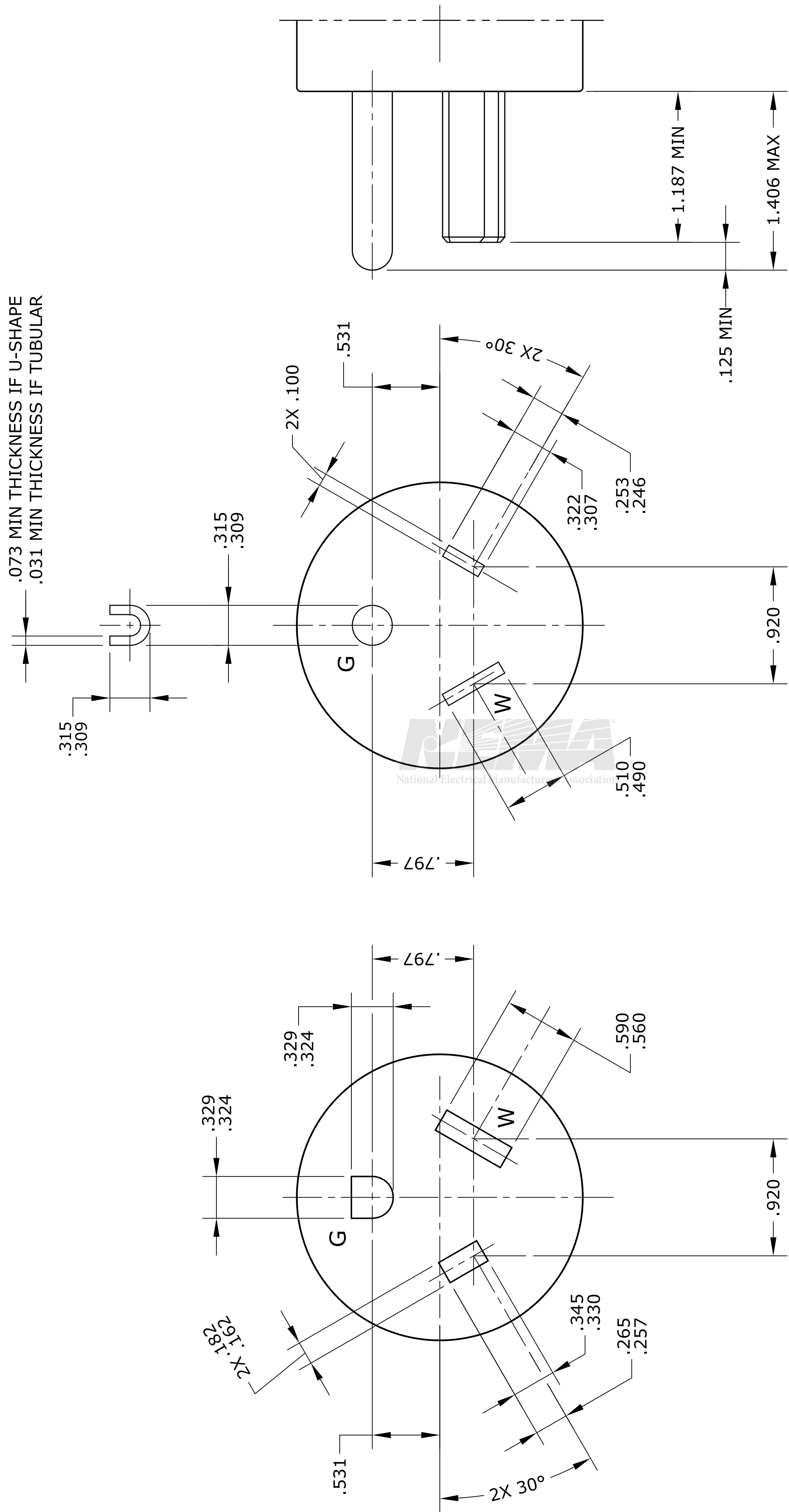
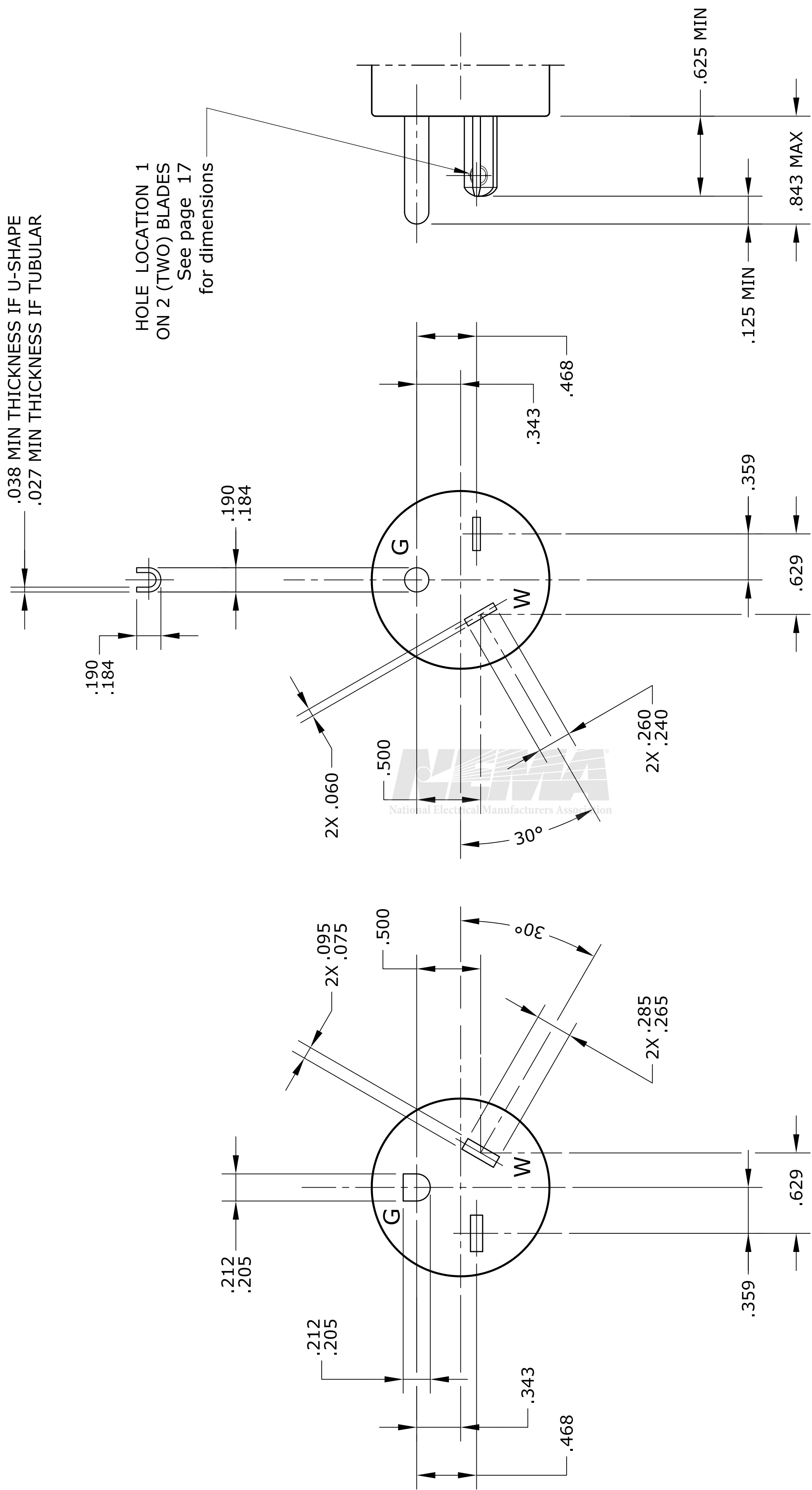


FIGURE 7-50
PLUG AND RECEPTACLE
277 volts AC, 50 amperes, 2 pole, 3 wire, Grounding type

FIGURE 24-15





PLUG

RECEPTACLE

FIGURE 24-20
PLUG AND RECEPTACLE
347 volts AC, 20 amperes, 2 pole, 3 wire, Grounding type

FIGURE 24-30

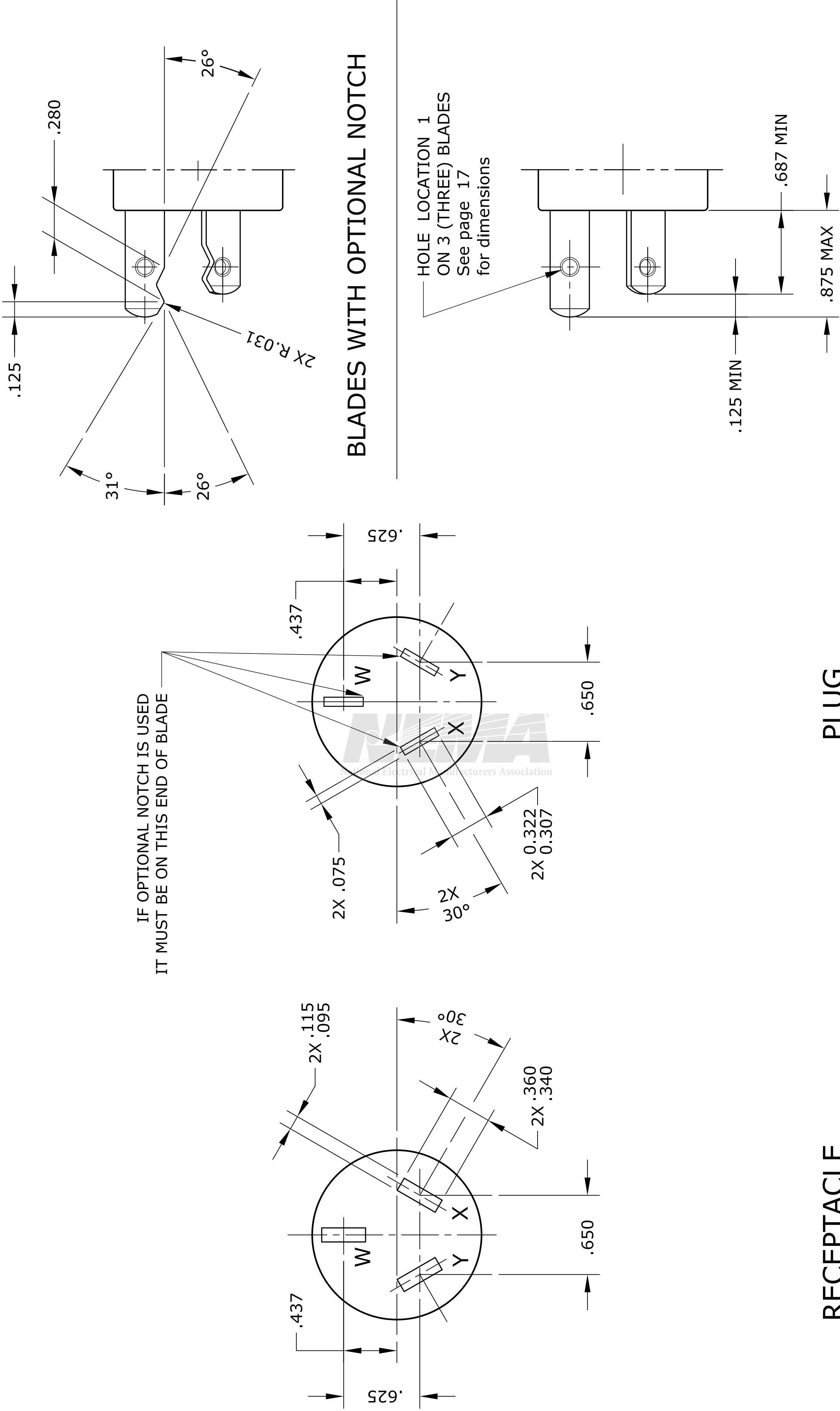


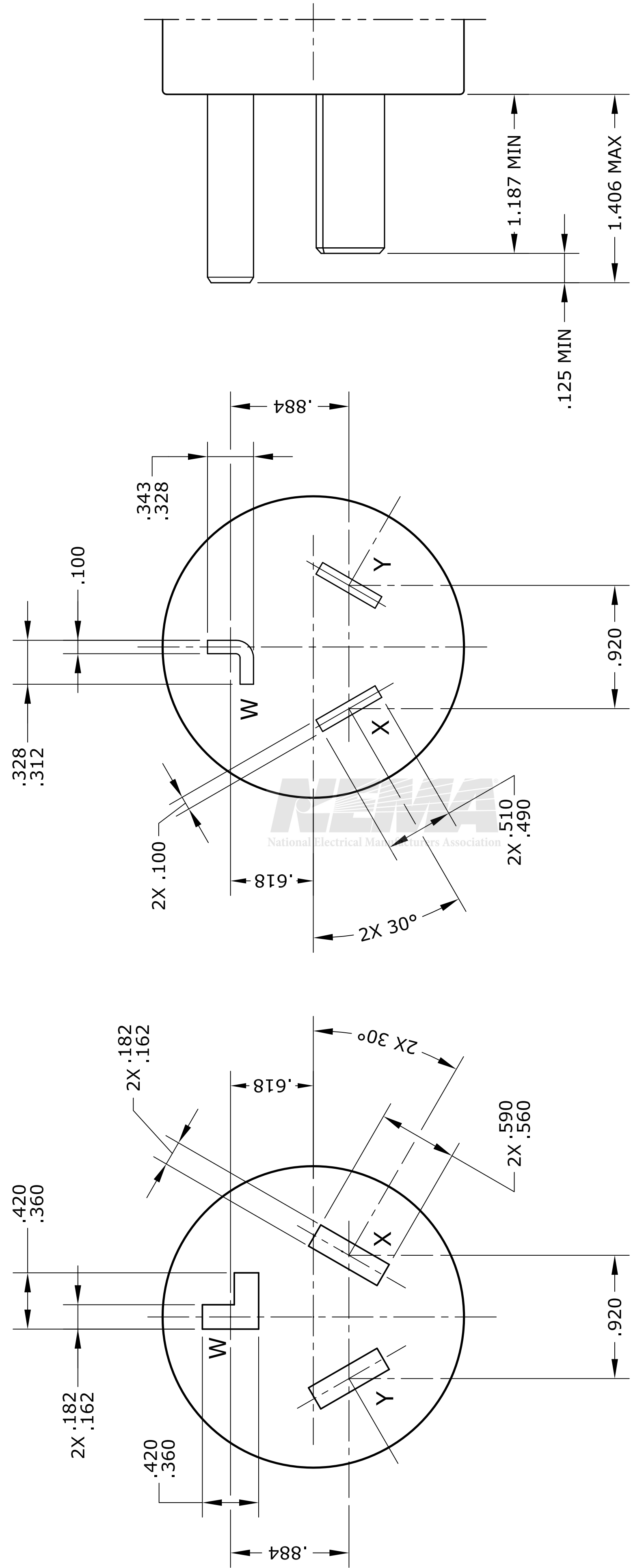
RECEPTACLE



FIGURE 24-50
PLUG AND RECEPTACLE
347 volts AC, 50 amperes, 2 pole, 3 wire, Grounding type

FIGURE 10-20
PLUG AND RECEPTACLE
125/250 volts, 20 amperes, 3 pole, 3 wire



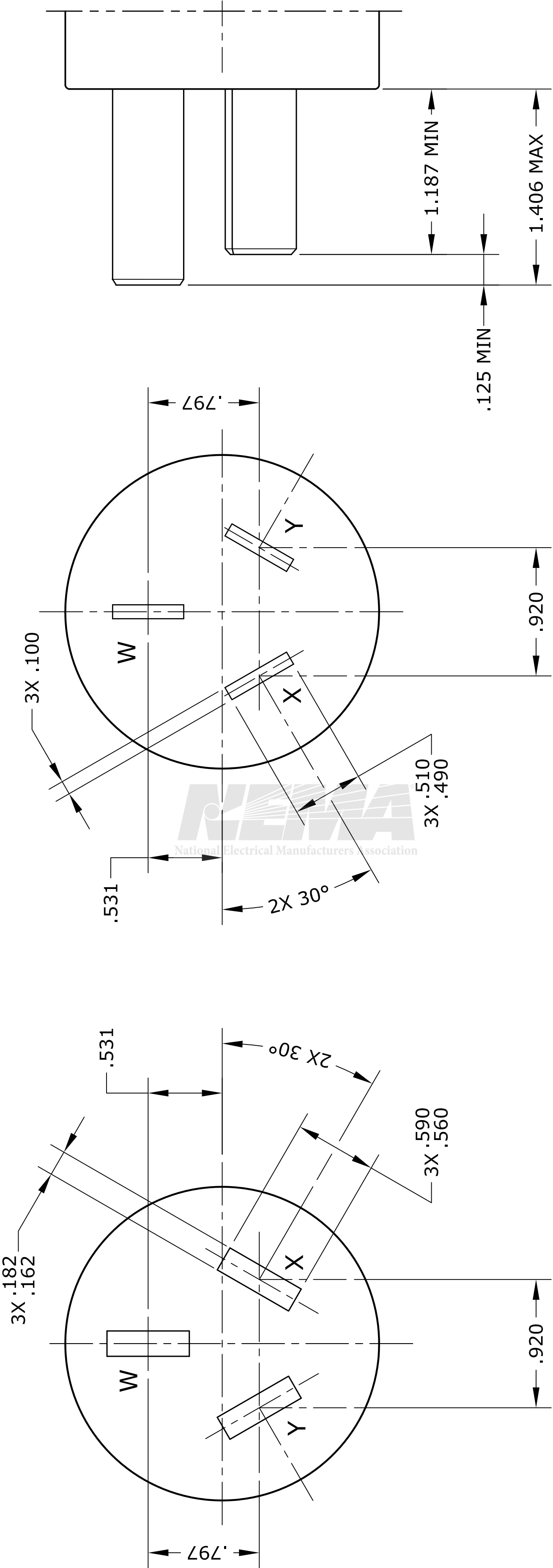


PLUG

RECEPTACLE

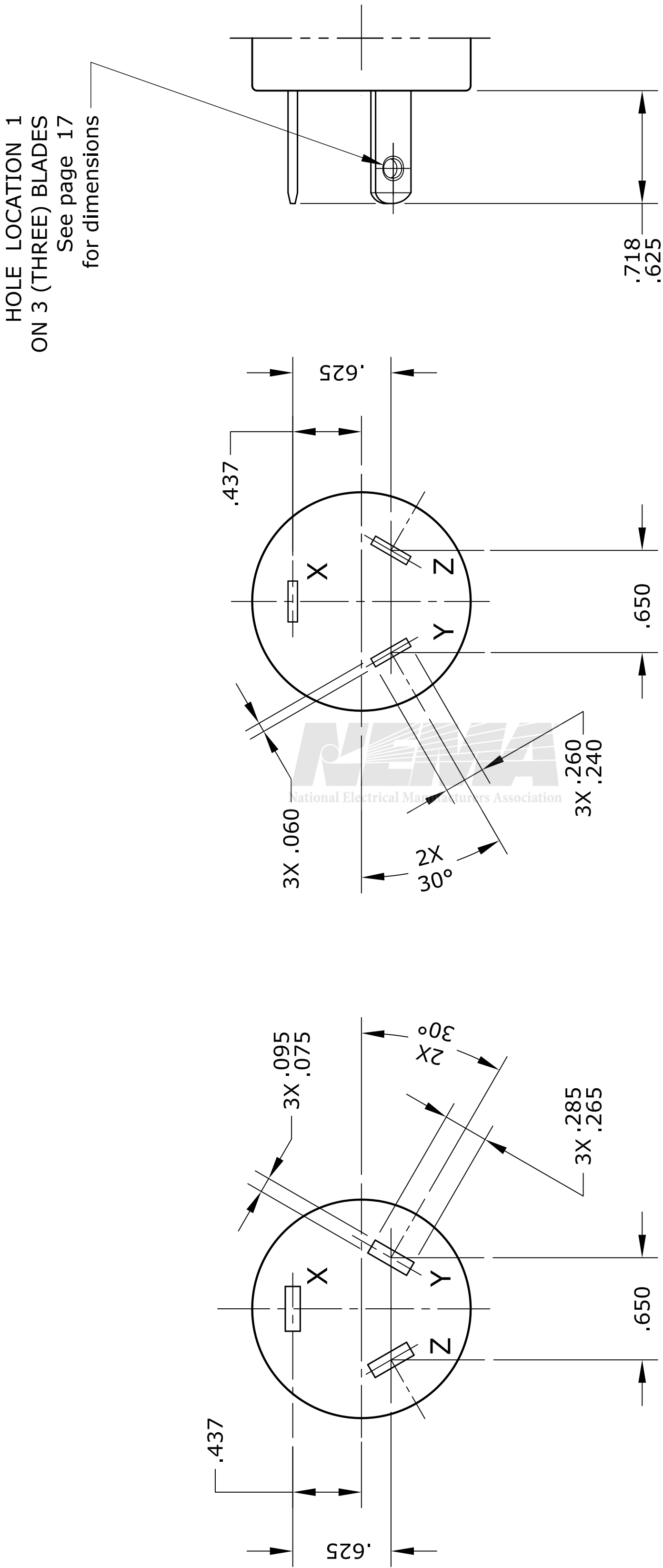
FIGURE 10-30
PLUG AND RECEPTACLE
125/250 volts, 30 amperes, 3 pole, 3 wire

FIGURE 10-50
PLUG AND RECEPTACLE
125/250 volts, 50 amperes, 3 pole, 3 wire



PLUG

RECEPTACLE

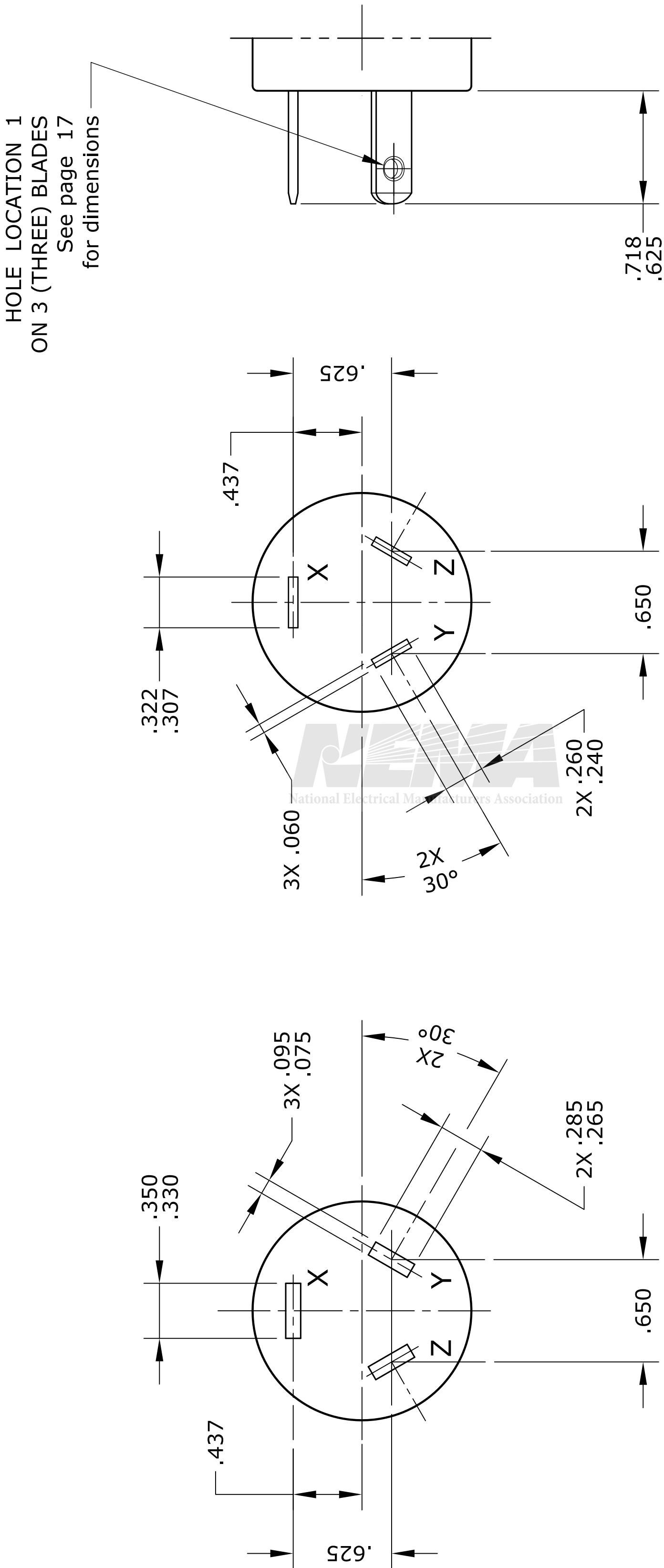


PLUG

RECEPTACLE

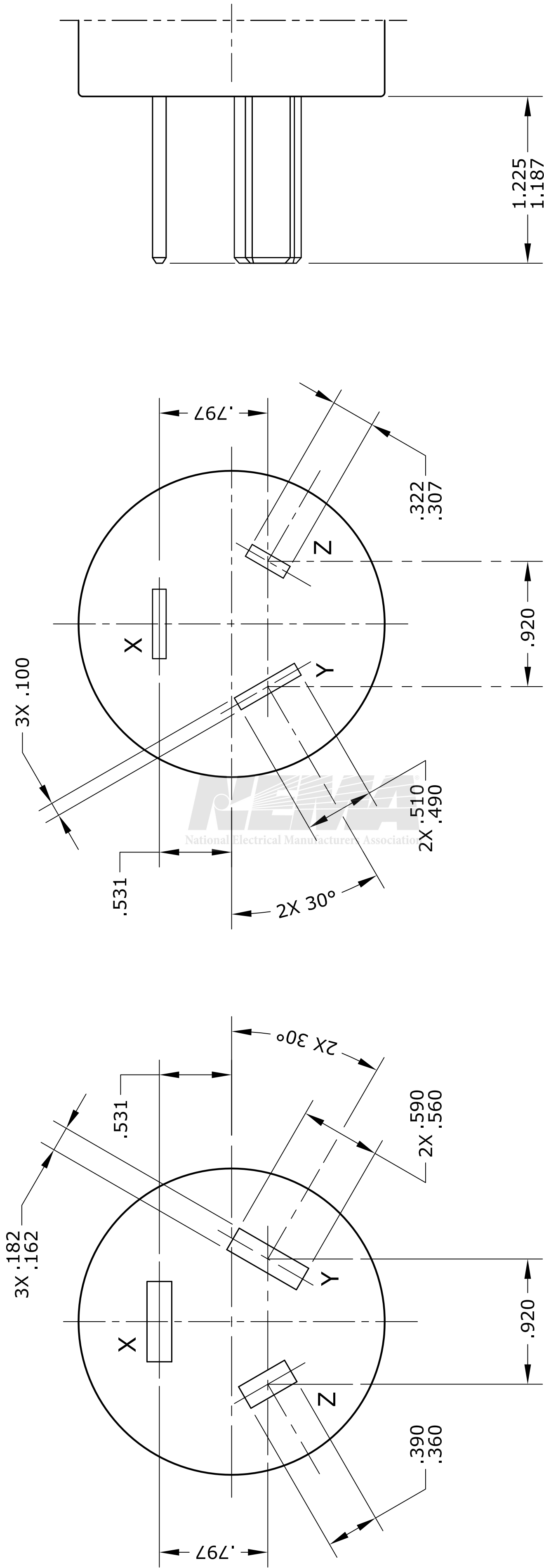
FIGURE 11-15
PLUG AND RECEPTACLE
250 volts, 15 amperes, 3 phase, 3 pole, 3 wire

FIGURE 11-20
PLUG AND RECEPTACLE
250 volts, 20 amperes, 3 phase, 3 pole, 3 wire



RECEPTACLE

PLUG

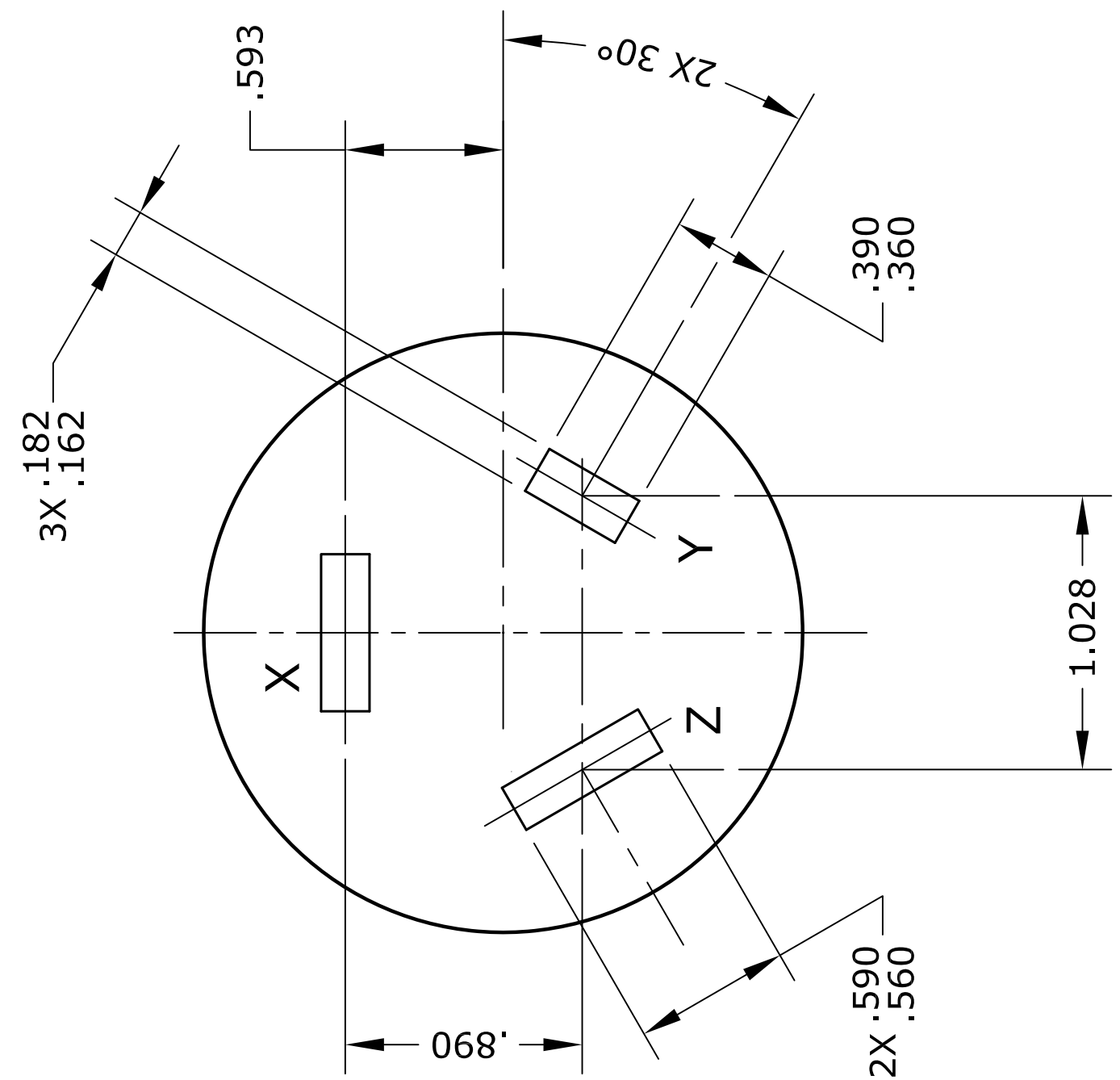


PLUG

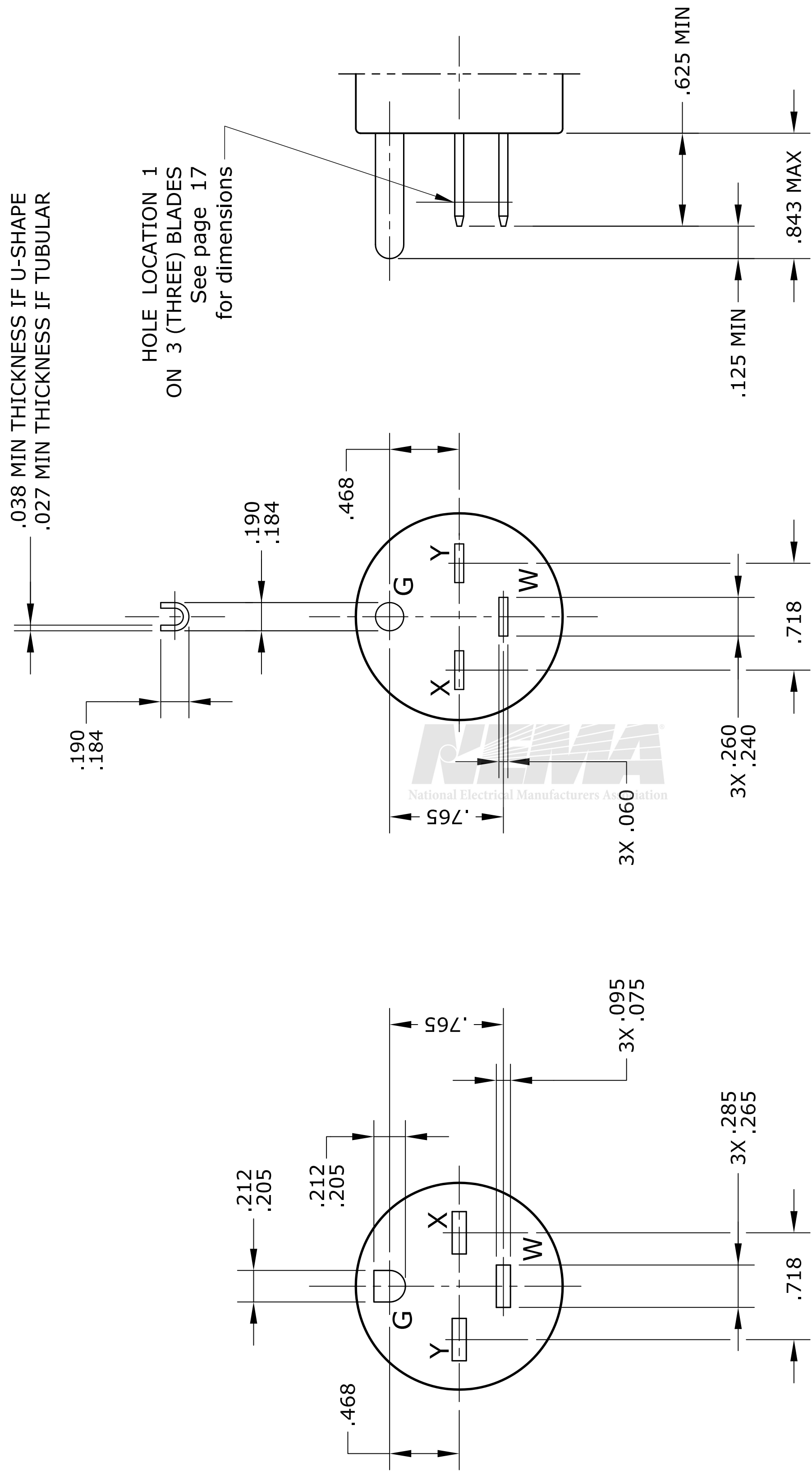
RECEPTACLE

FIGURE 11-30
PLUG AND RECEPTACLE
250 volts, 30 amperes, 3 phase, 3 pole, 3 wire

FIGURE 11-50



RECEPTACLE

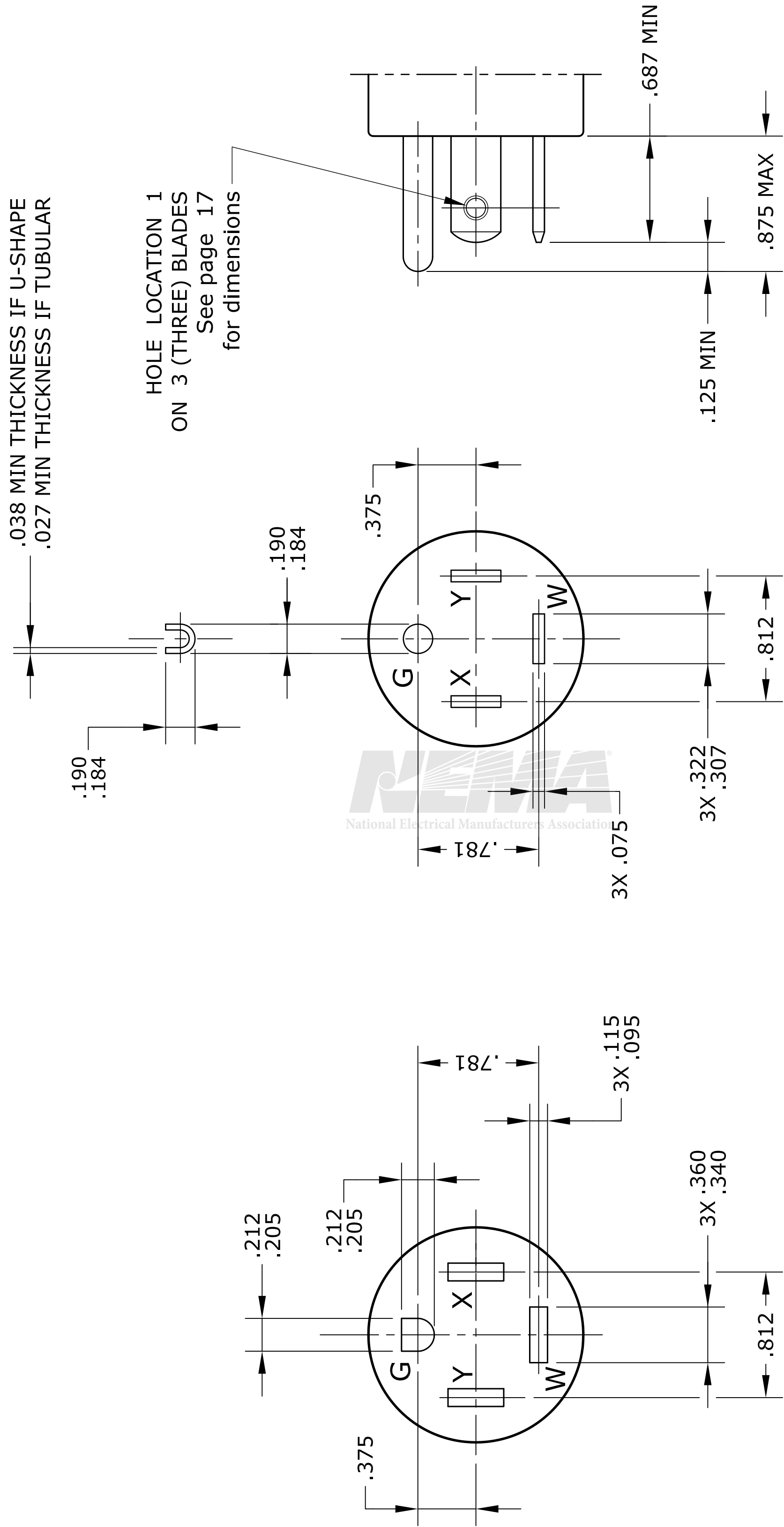


PLUG

RECEPTACLE

FIGURE 14-15
PLUG AND RECEPTACLE
125/250 volts, 15 amperes, 3 pole, 4 wire, Grounding type

FIGURE 14-20
PLUG AND RECEPTACLE
125/250 volts, 20 amperes, 3 pole, 4 wire, Grounding type



RECEPTACLE

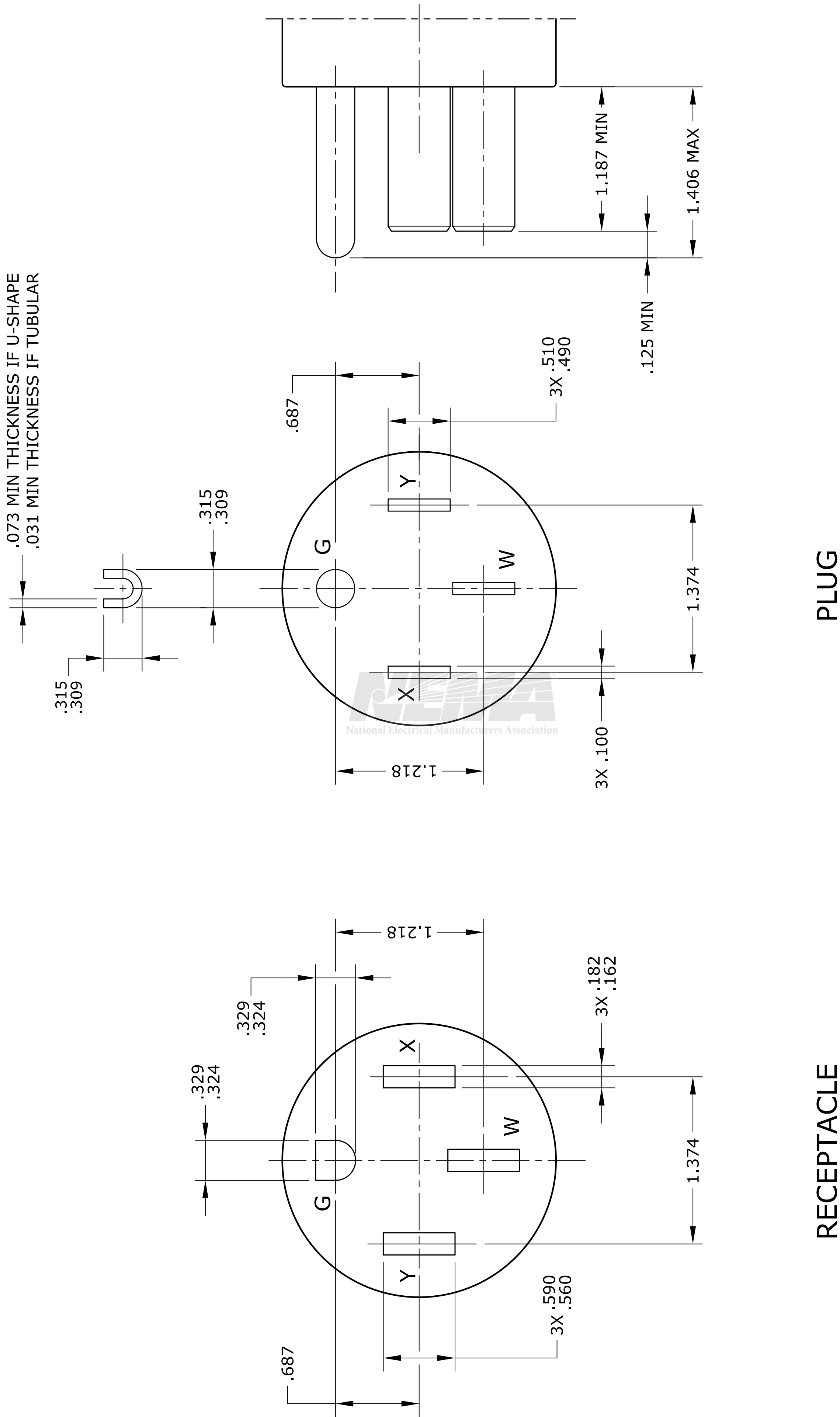
PLUG

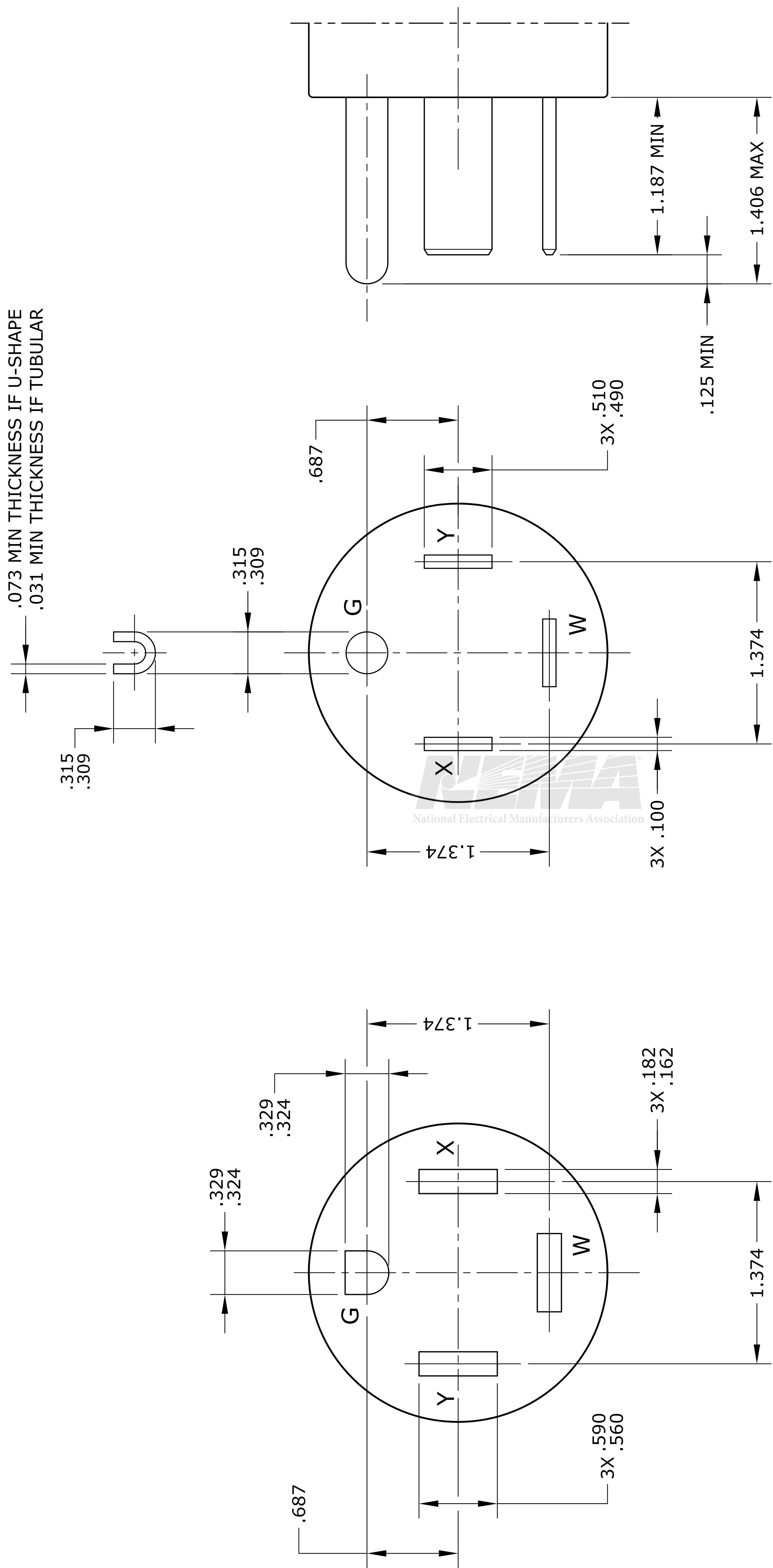


RECEPTACLE

FIGURE 14-30
PLUG AND RECEPTACLE
125/250 volts, 30 amperes, 3 pole, 4 wire, Grounding type

FIGURE 14-50
PLUG AND RECEPTACLE
125/250 volts, 50 amperes, 3 pole, 4 wire, Grounding type





PLUG

RECEPTACLE

FIGURE 14-60
PLUG AND RECEPTACLE
125/250 volts, 60 amperes, 3 pole, 4 wire, Grounding type

FIGURE 15-15

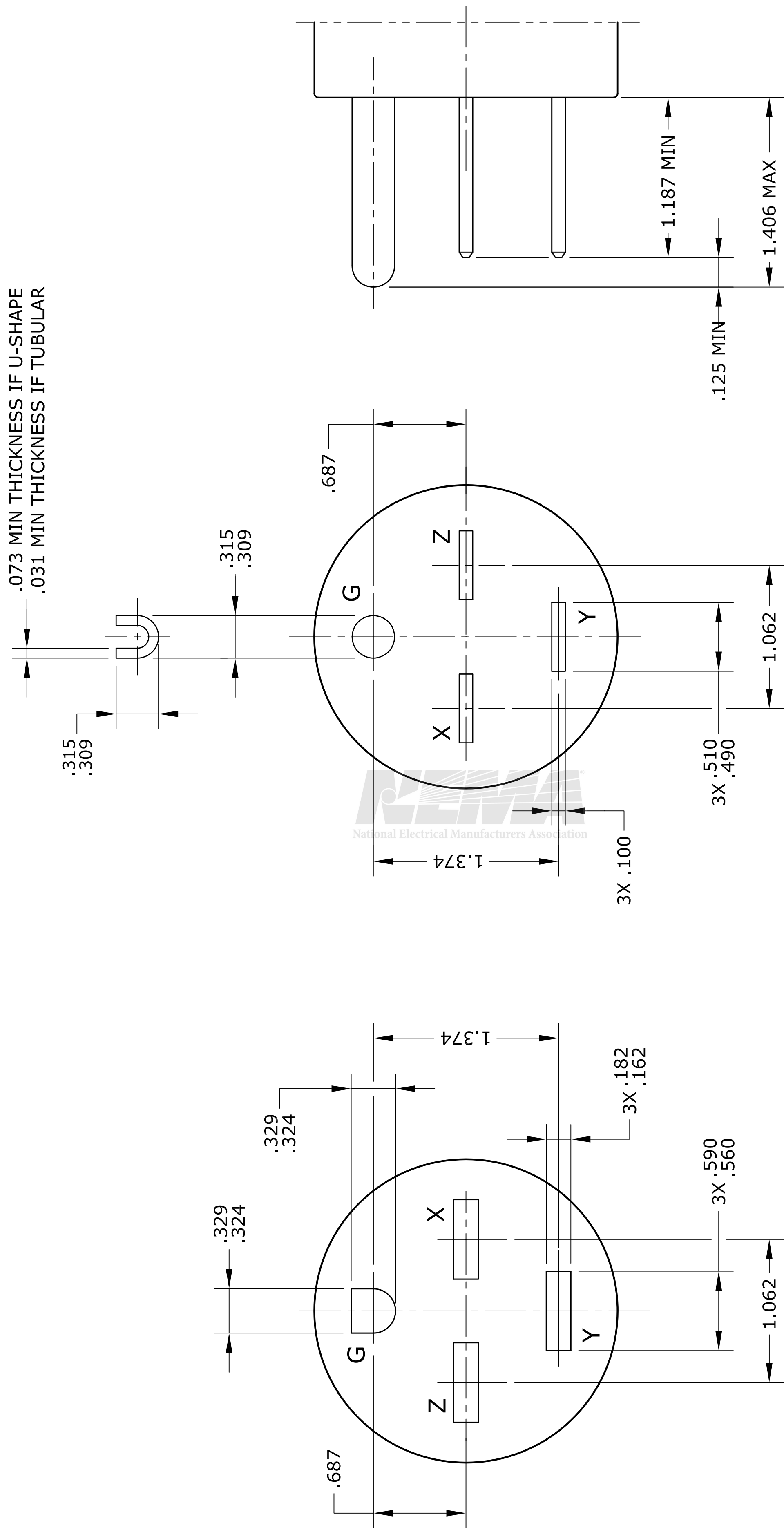


PLUG



FIGURE 15-20
PLUG AND RECEPTACLE
250 volts, 20 amperes, 3 phase, 3 pole, 4 wire, Grounding type

FIGURE 15-30
PLUG AND RECEPTACLE
250 volts, 30 amperes, 3 phase, 3 pole, 4 wire, Grounding type



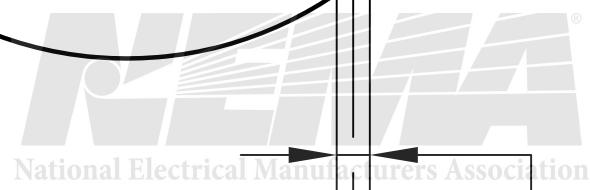
RECEPTACLE

PLUG

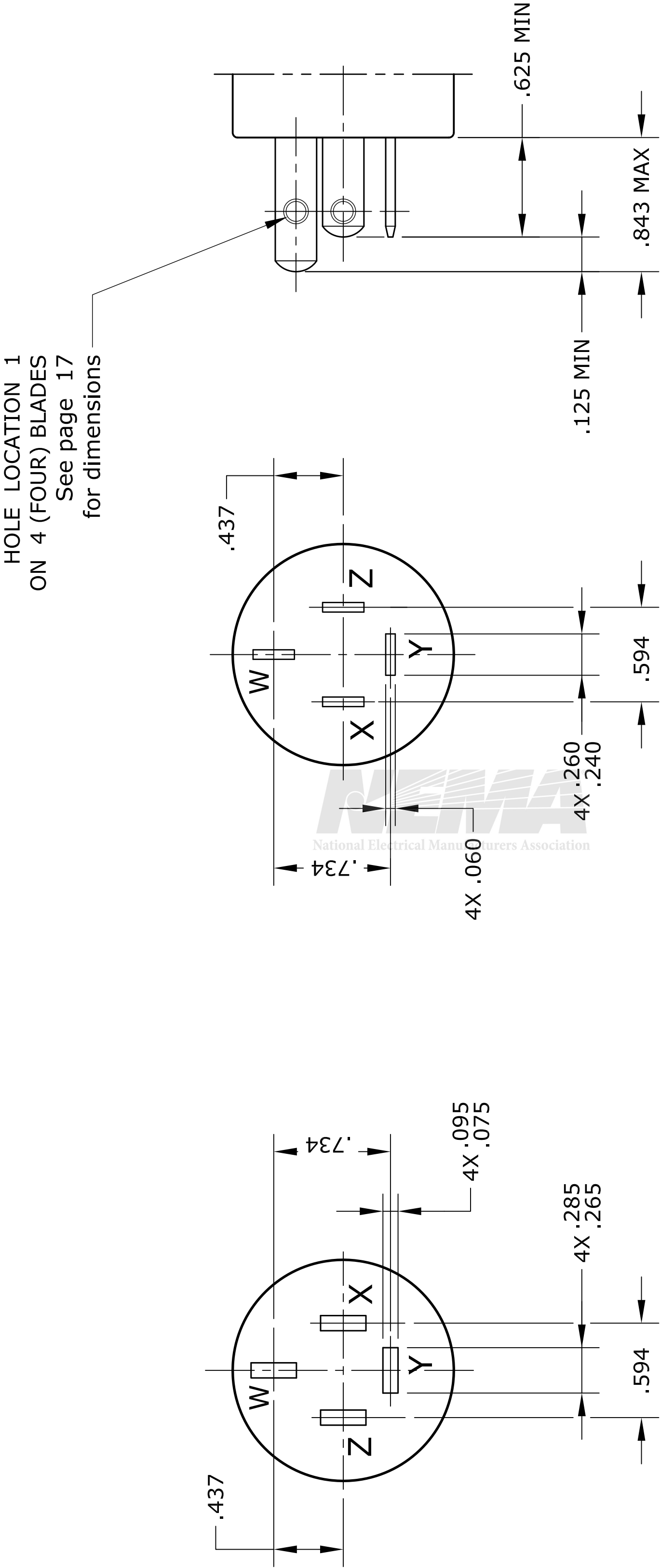


FIGURE 15-50
PLUG AND RECEPTACLE
250 volts, 50 amperes, 3 phase, 3 pole, 4 wire, Grounding type

FIGURE 15-60



PLUG

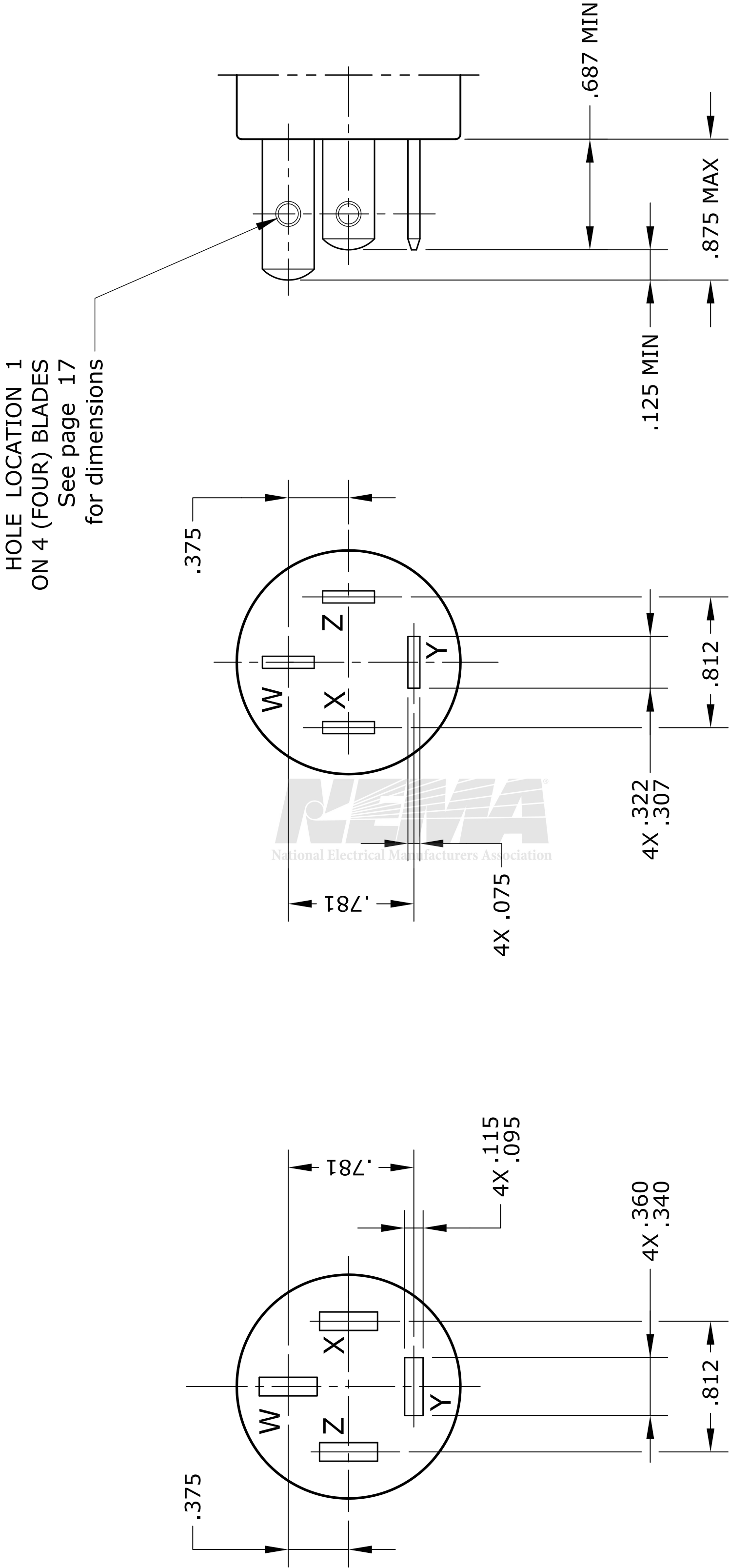


PLUG

RECEPTACLE

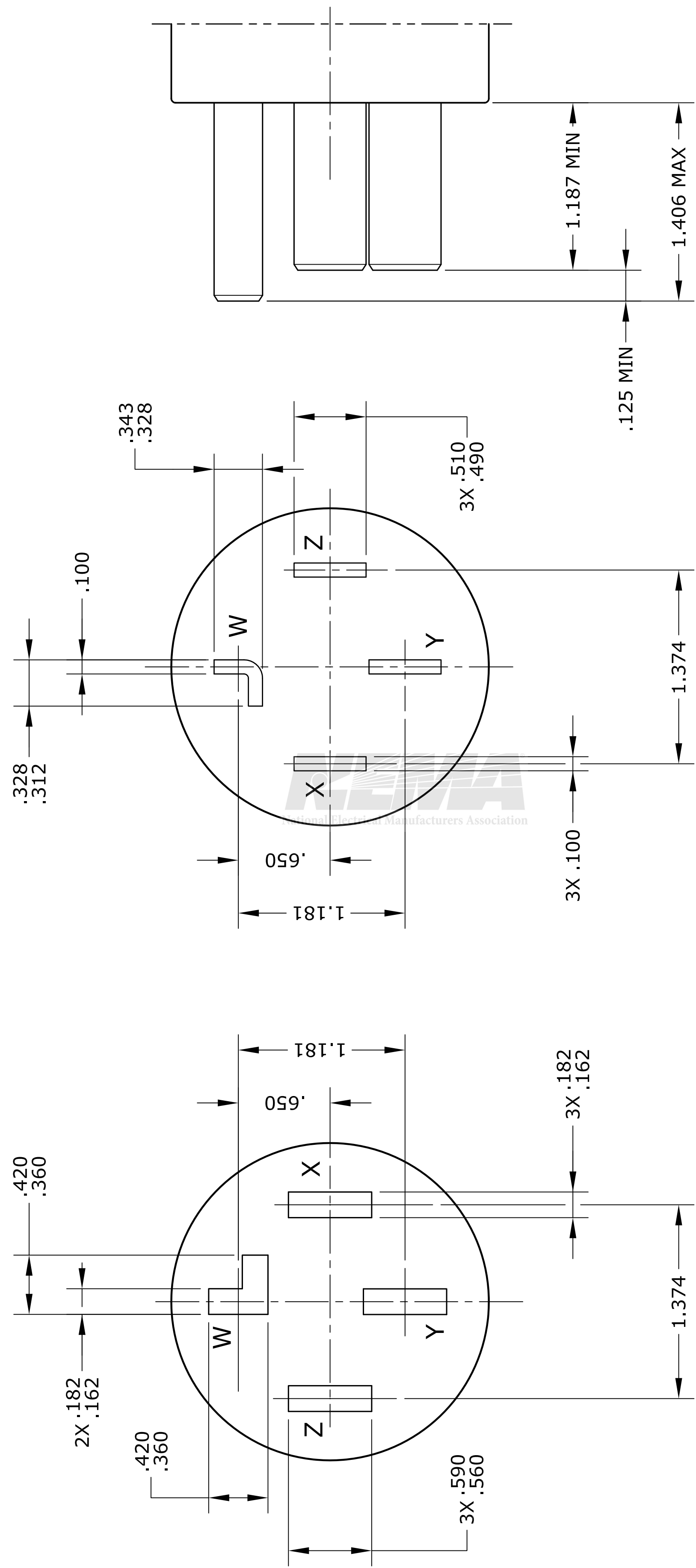
FIGURE 18-15
PLUG AND RECEPTACLE
120/208 volts, 15 amperes, 3 phase Y, 4 pole, 4 wire

FIGURE 18-20
PLUG AND RECEPTACLE
120/208 volts, 20 amperes, 3 phase Y, 4 pole, 4 wire,



RECEPTACLE

PLUG

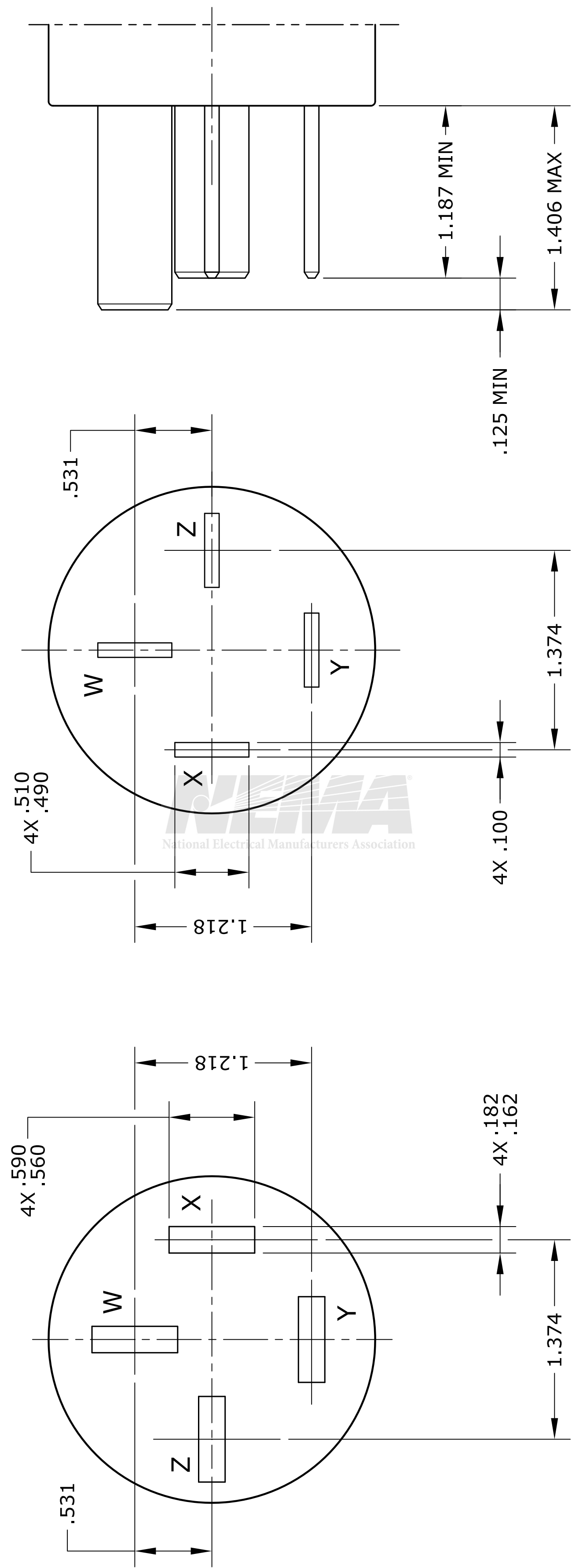


PLUG

RECEPTACLE

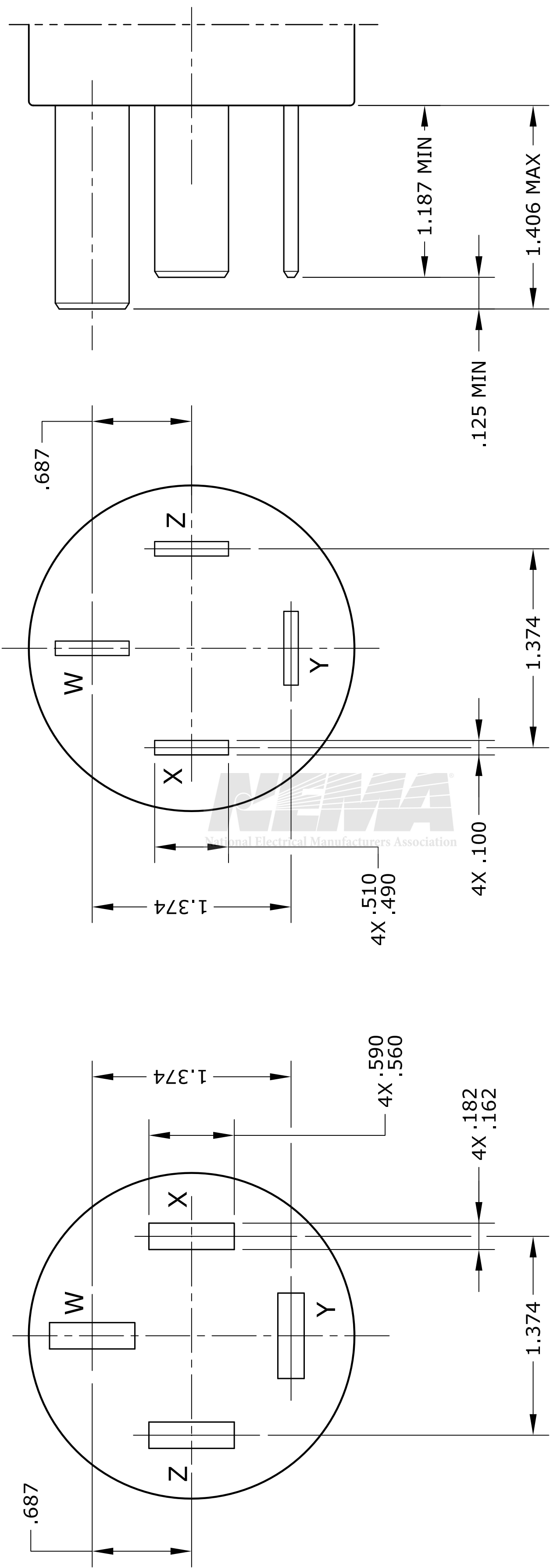
FIGURE 18-30
PLUG AND RECEPTACLE
120/208 volts, 30 amperes, 3 phase Y, 4 pole, 4 wire

FIGURE 18-50
PLUG AND RECEPTACLE
120/208 volts, 50 amperes, 3 phase Y, 4 pole, 4 wire



PLUG

RECEPTACLE

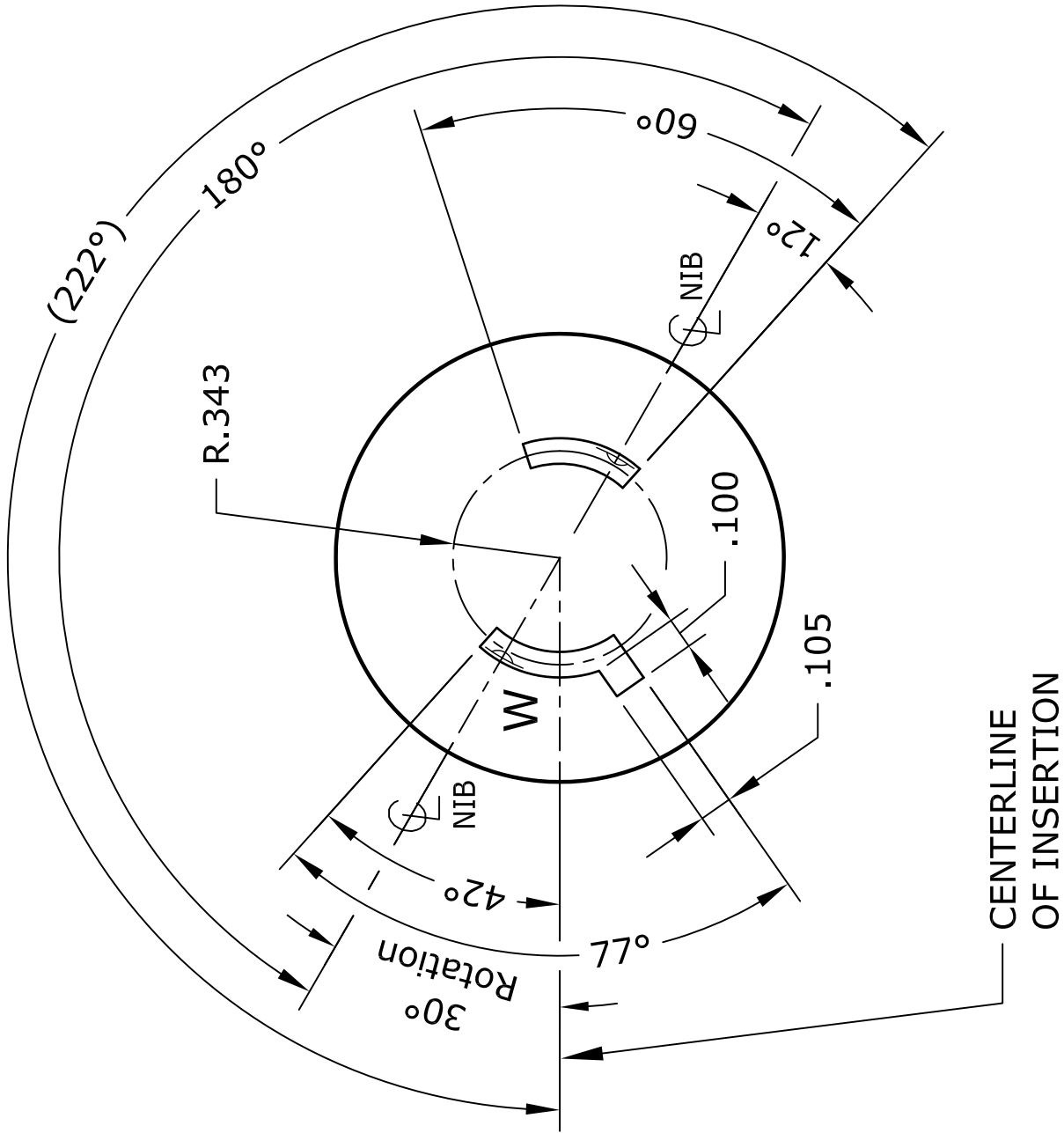
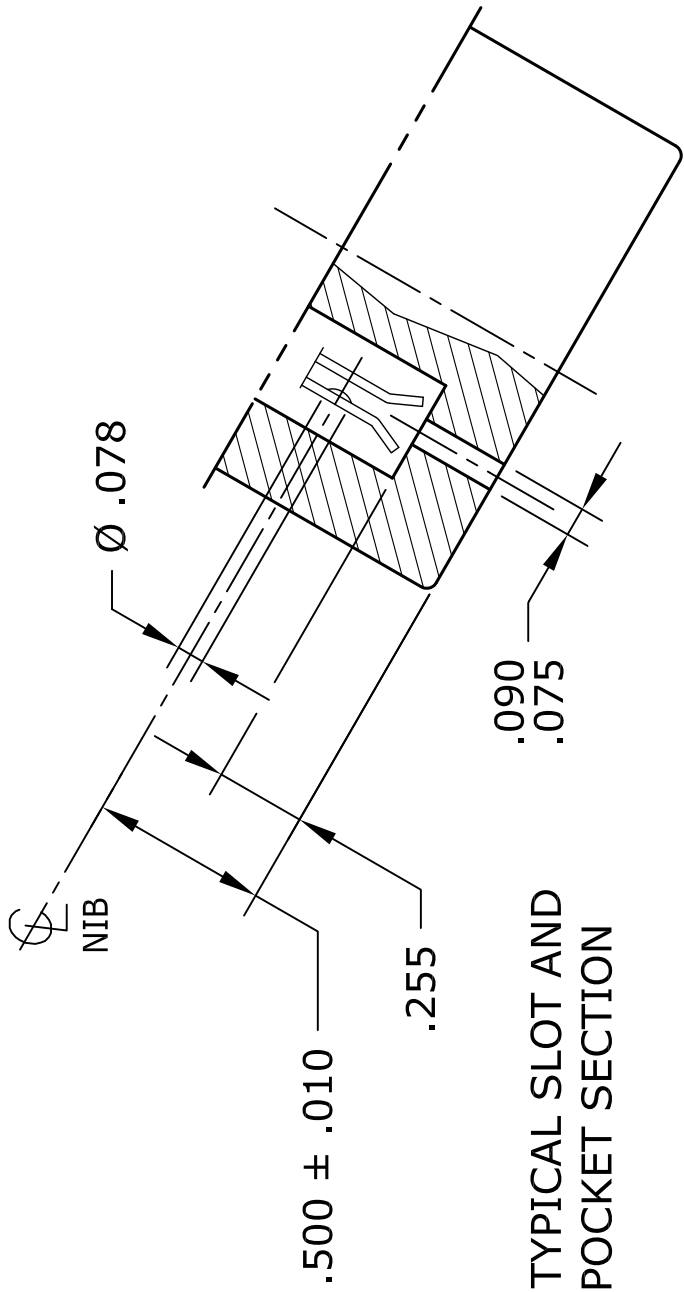


PLUG

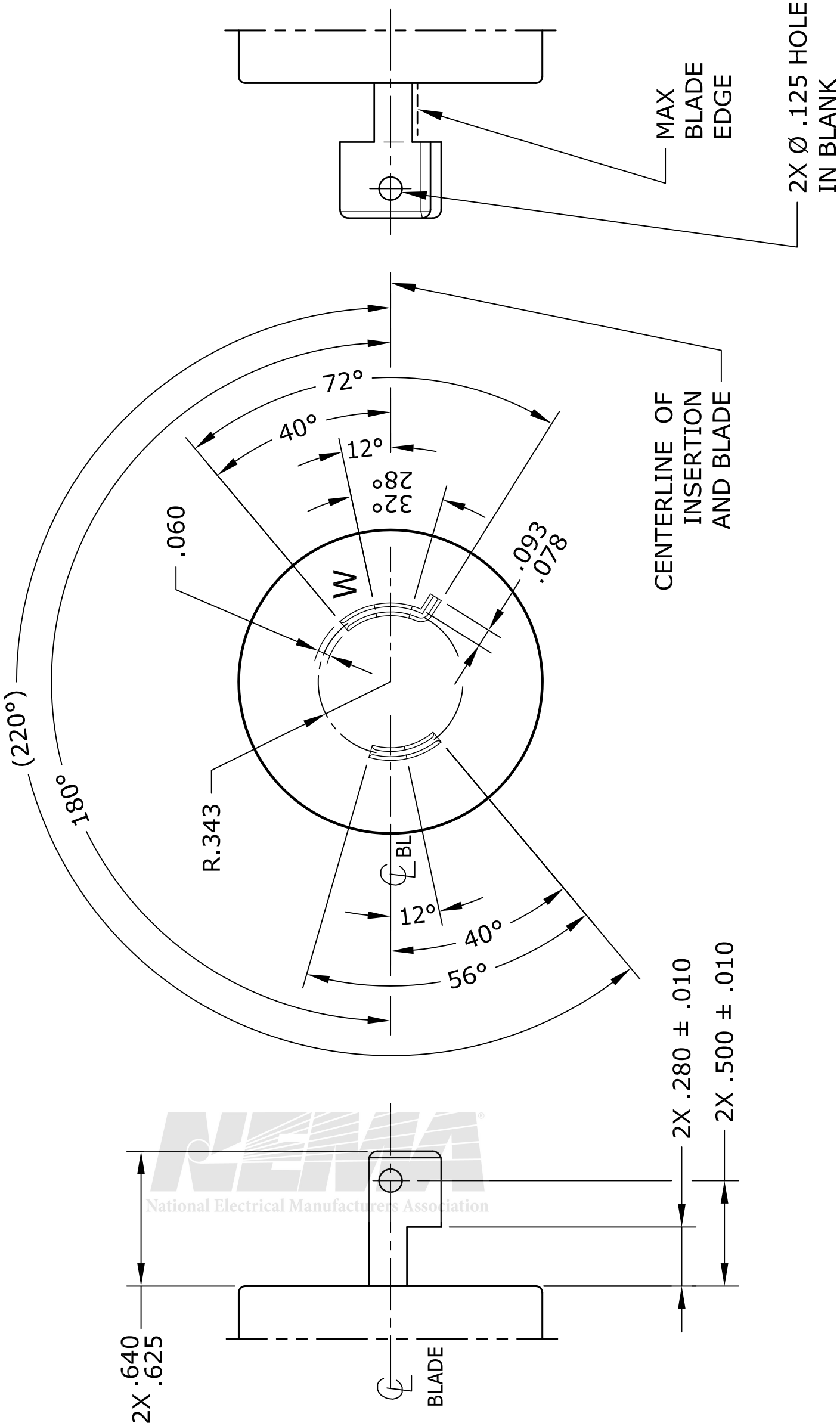
RECEPTACLE

FIGURE 18-60
PLUG AND RECEPTACLE
120/208 volts, 60 amperes, 3 phase Y, 4 pole, 4 wire

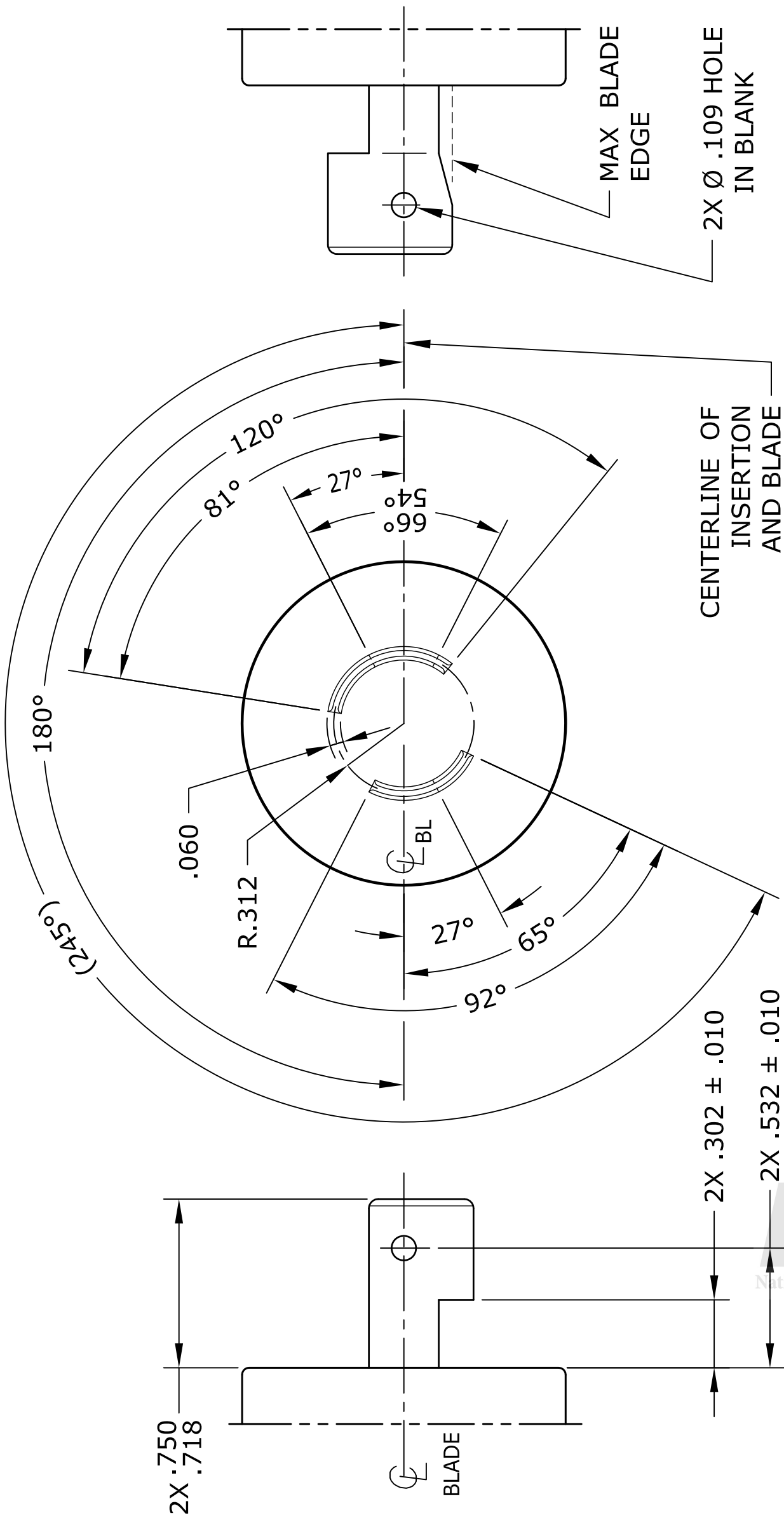
FIGURE L1-15
LOCKING TYPE PLUG AND RECEPTACLE
125 volts, 15 amperes, 2 pole, 2 wire



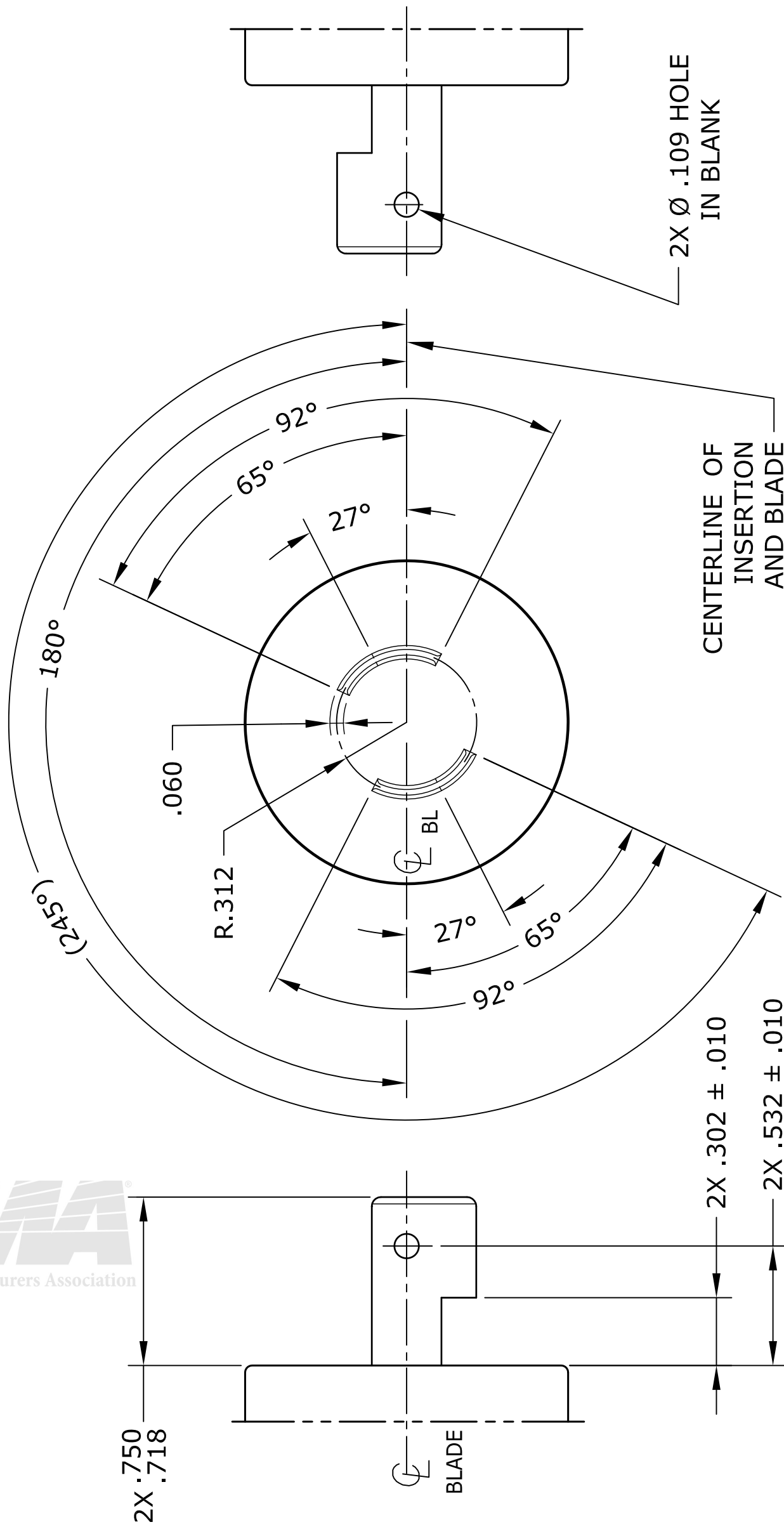
RECEPTACLE



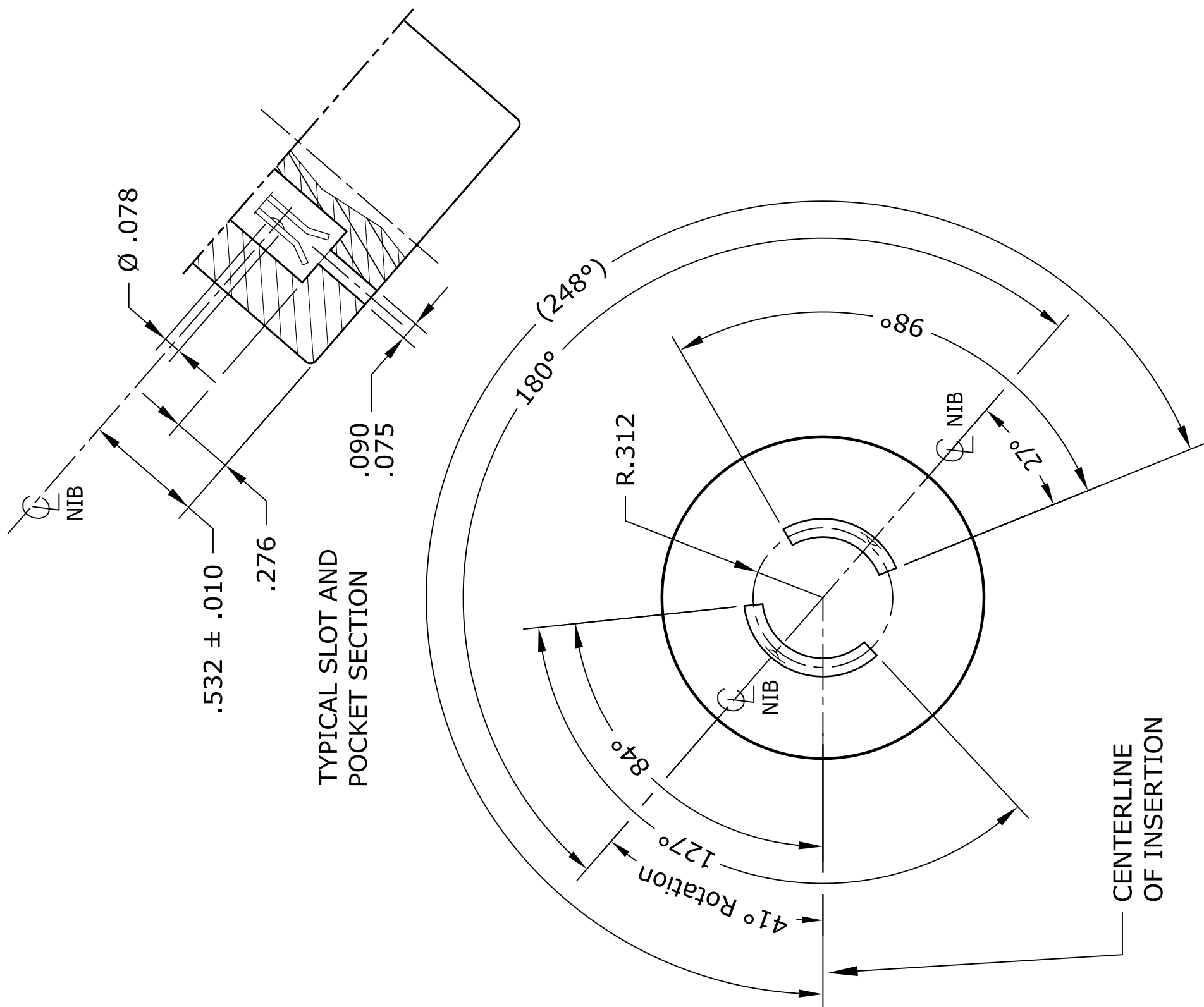
PLUG



POLARIZED PLUG



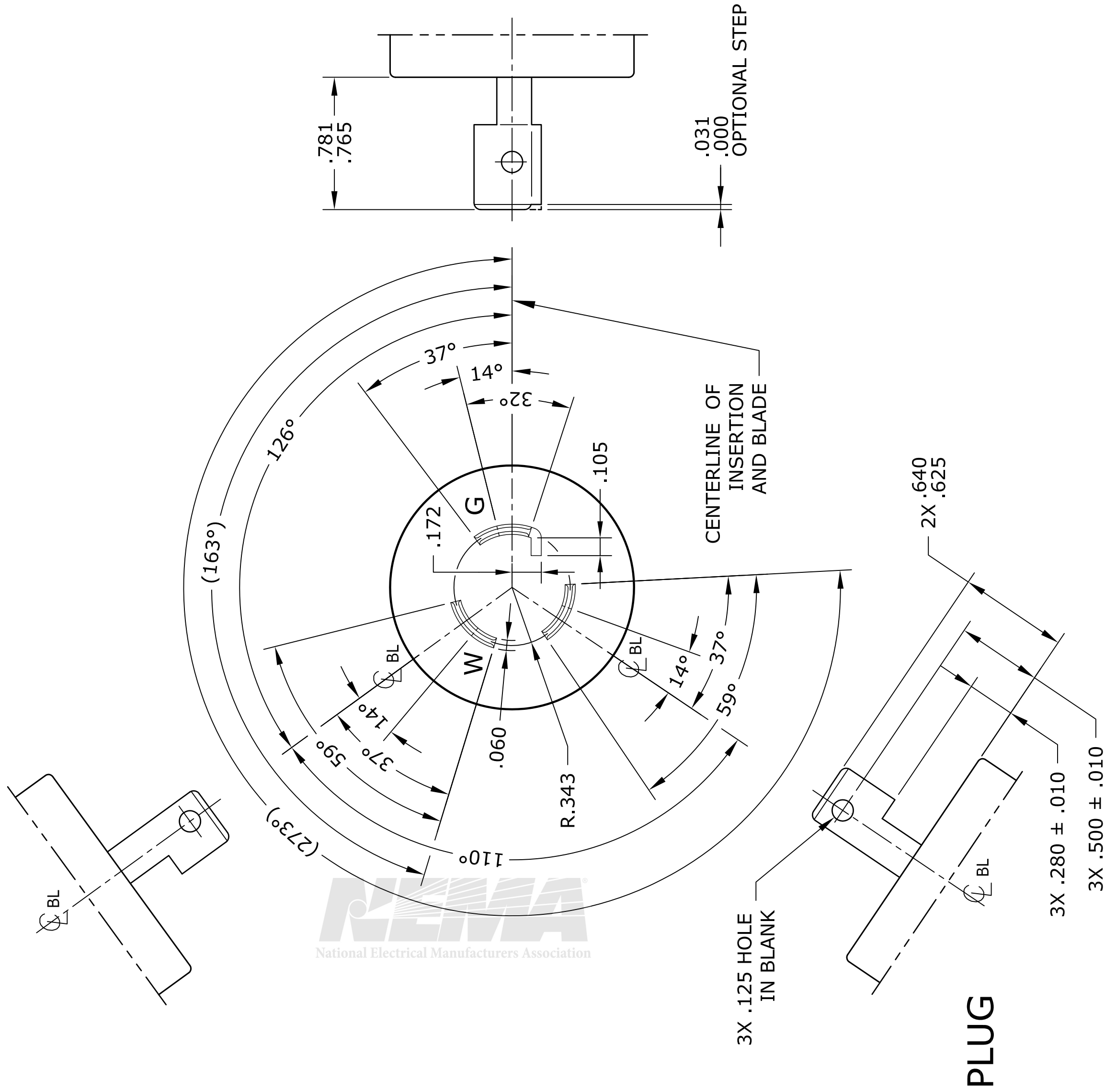
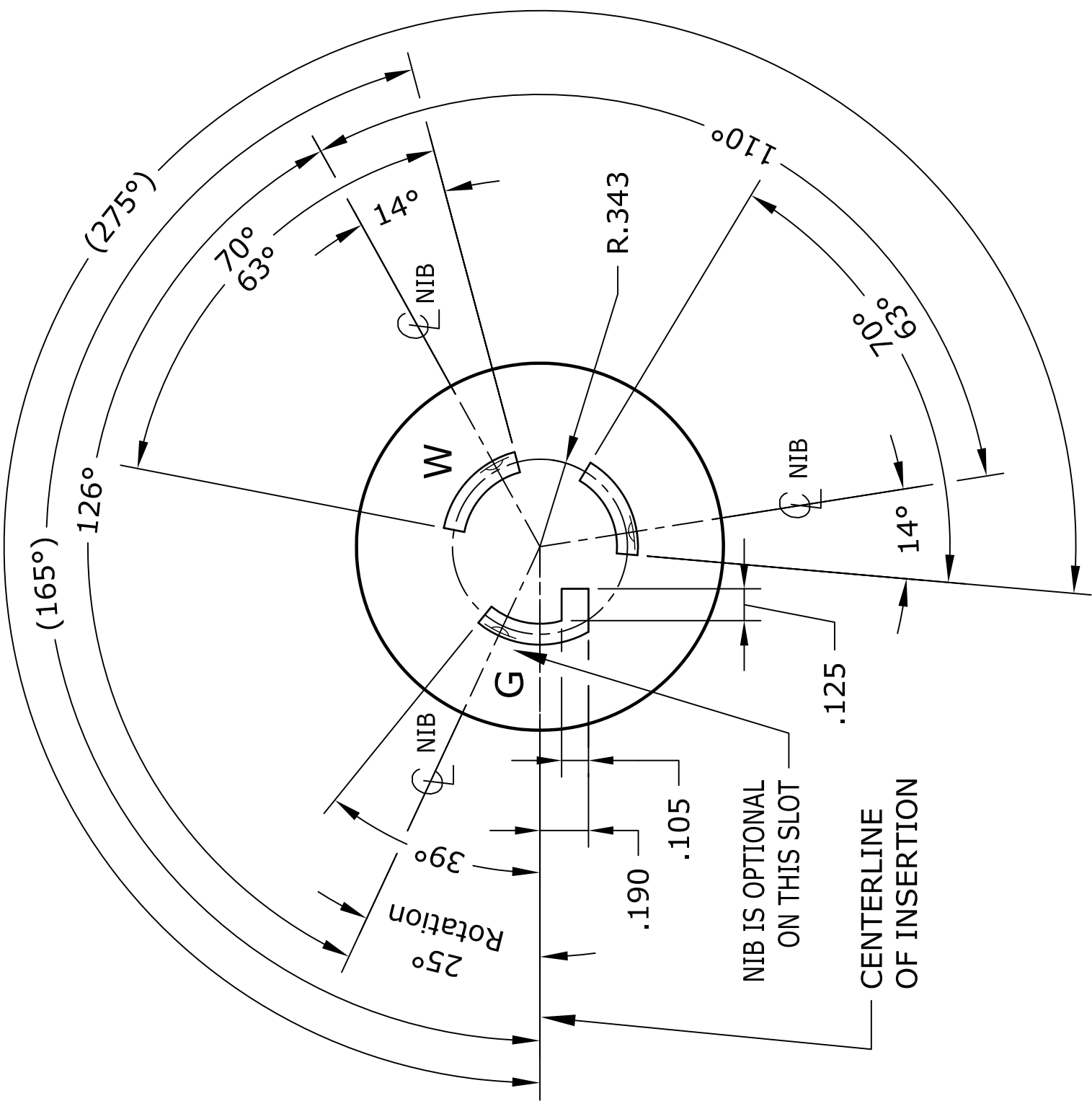
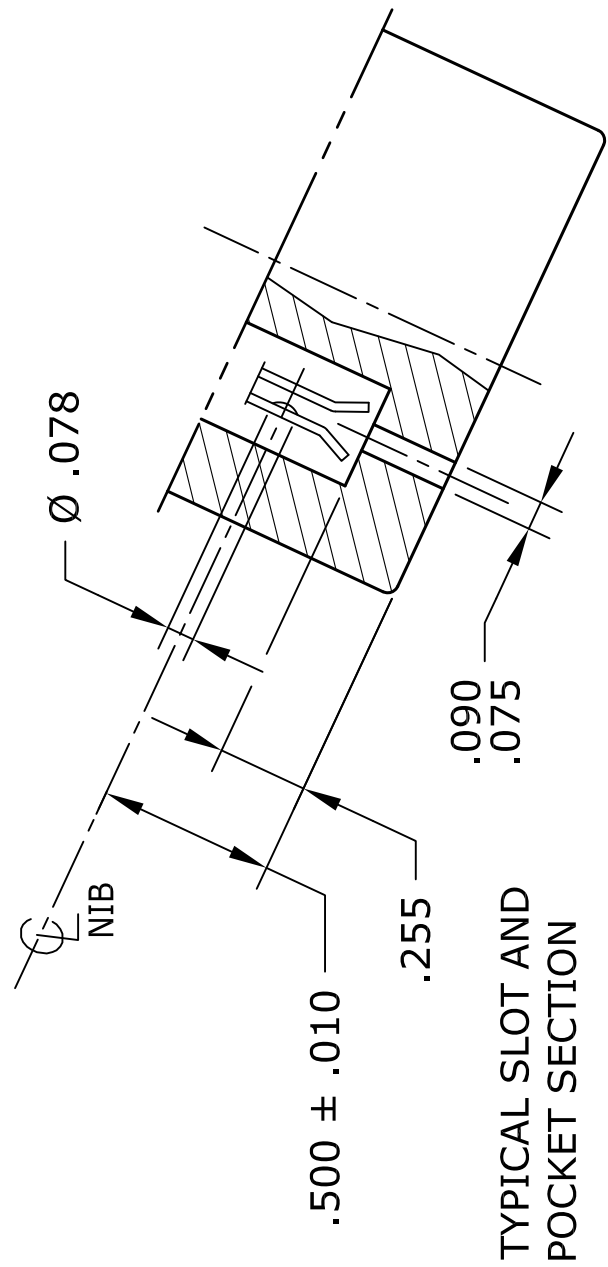
NON-POLARIZED PLUG



RECEPTACLE

FIGURE L2-20
LOCKING TYPE PLUG AND RECEPTACLE
250 volts, 20 amperes, 2 pole, 2 wire

FIGURE L5-15
LOCKING TYPE PLUG AND RECEPTACLE
125 volts, 15 amperes, 2 pole, 3 wire, Grounding type



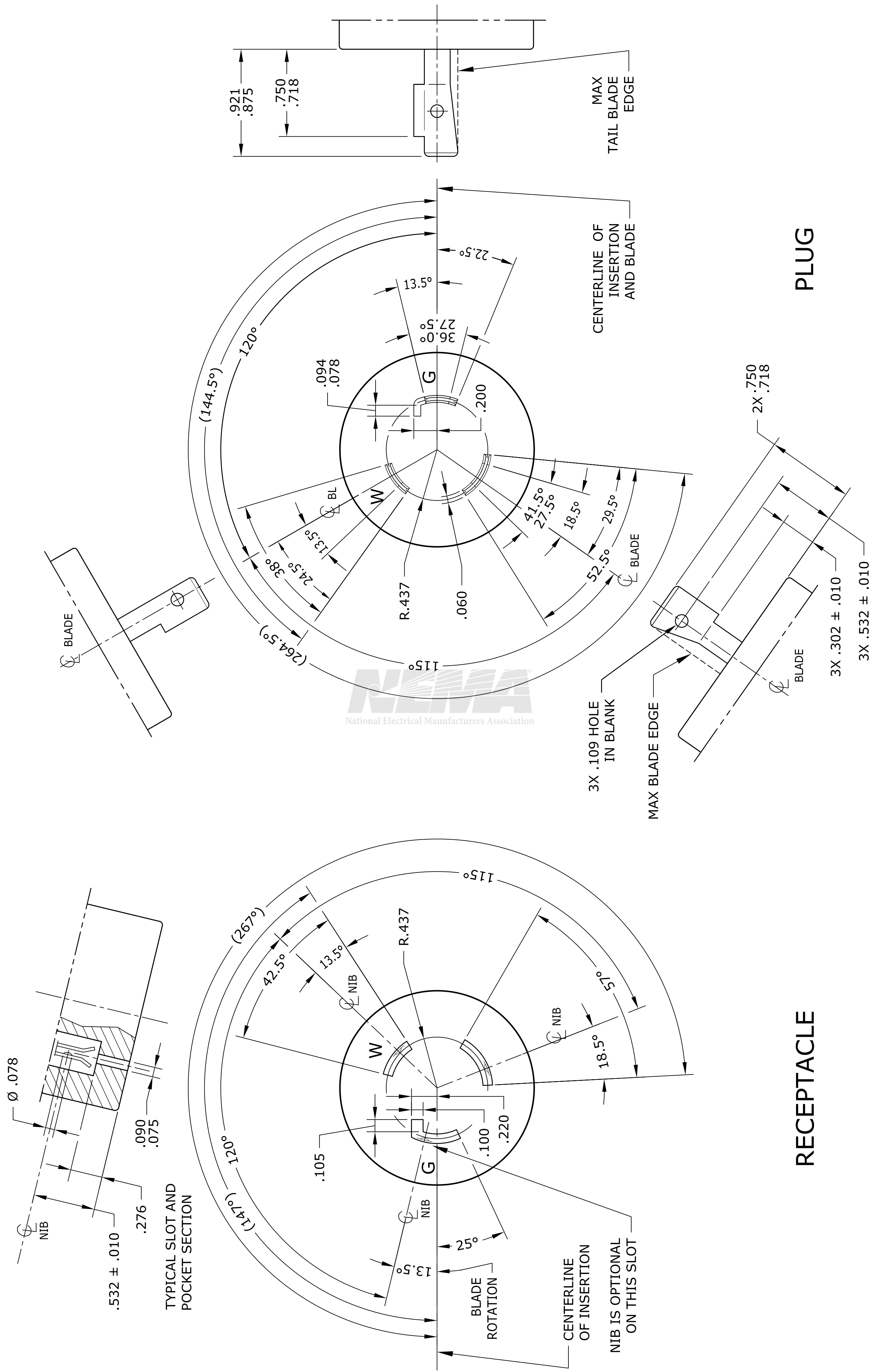
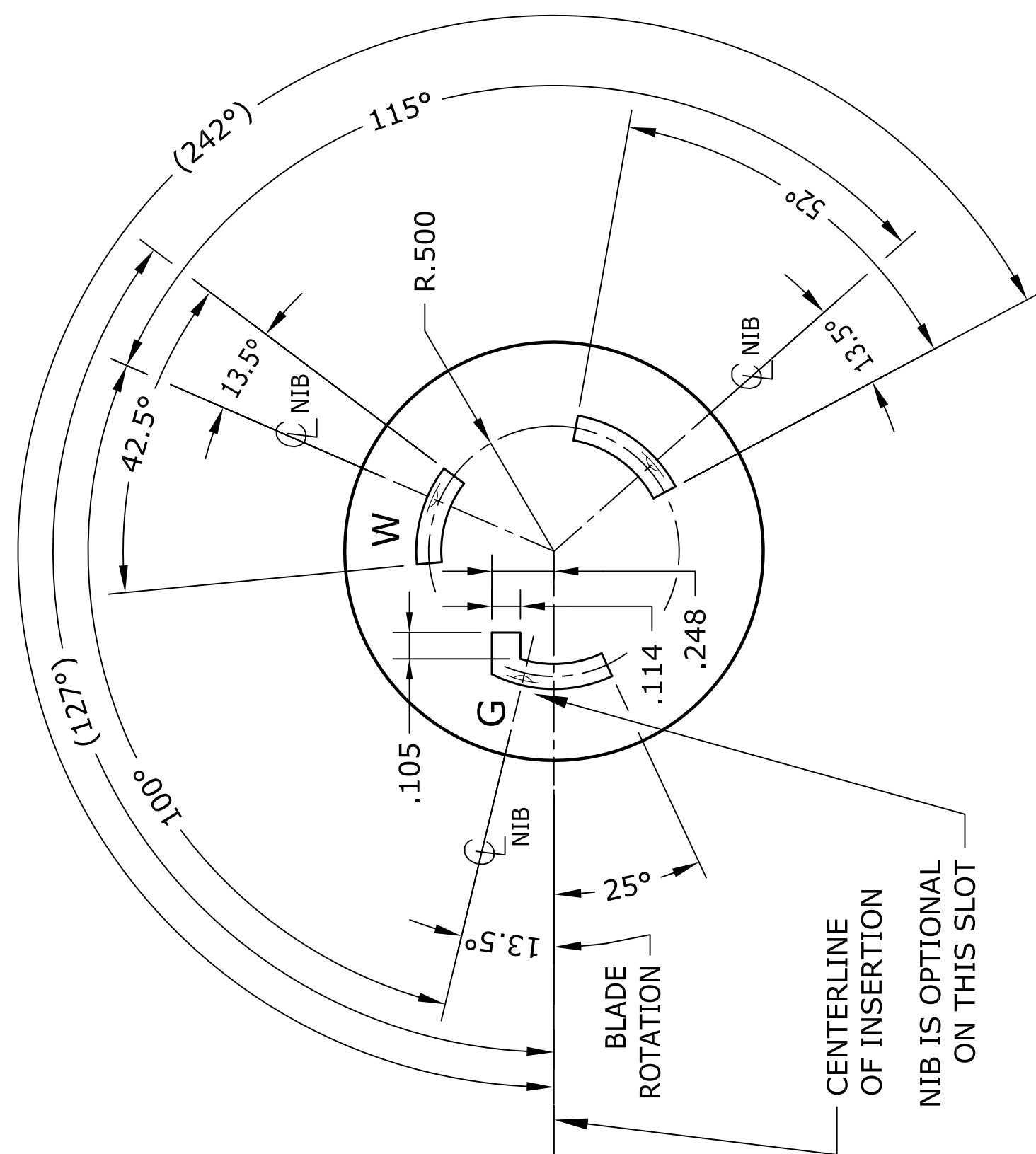


FIGURE L5-20
LOCKING TYPE PLUG AND RECEPTACLE
125 volts, 20 amperes, 2 pole, 3 wire, Grounding type

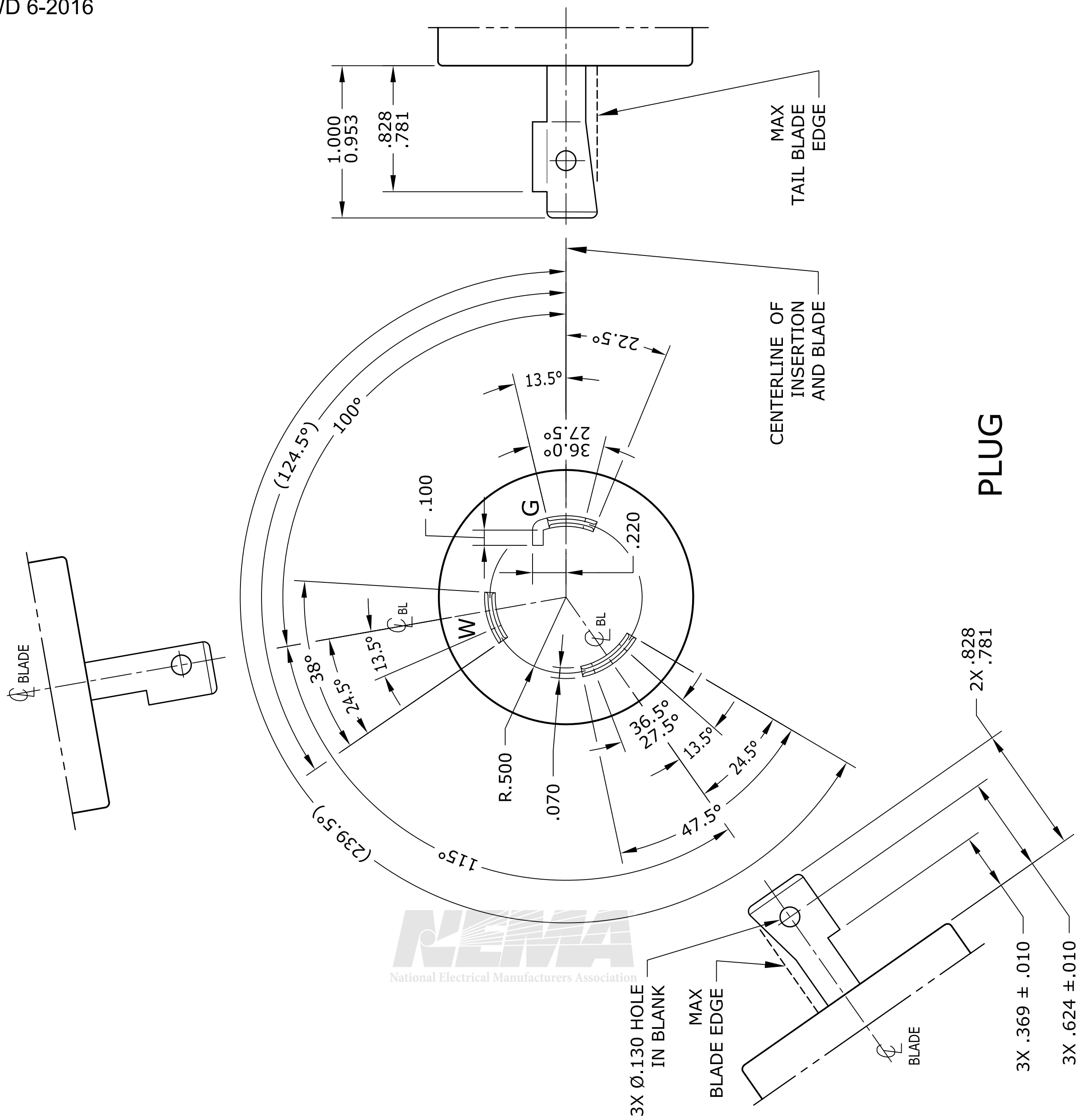
Technical drawing of a mechanical part showing a cross-section. The drawing includes the following dimensions and features:

- Ø .100: Diameter of the central hole.
- .109: Dimension of the top flange.
- .093: Dimension of the bottom flange.
- .624 ± .010: Total length of the part.
- .343: Dimension of the central section.
- NIB: A note indicating a fillet or chamfer at the bottom edge.

TYPICAL SLOT AND
POCKET SECTION



RECEPTACLE

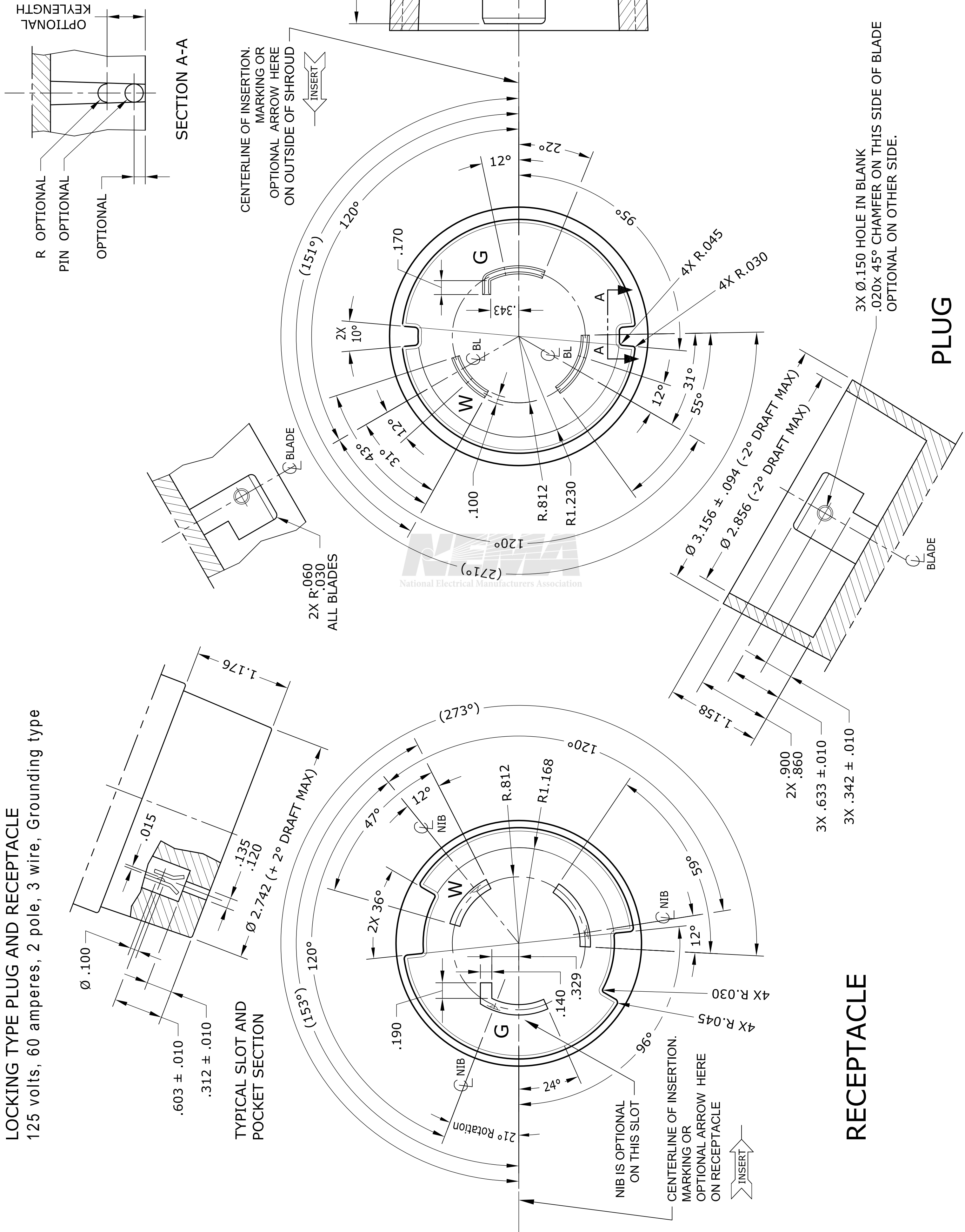


PLUG



FIGURE L5-50
LOCKING TYPE PLUG AND RECEPTACLE
125 volts, 50 amperes, 2 pole, 3 wire, Grounding type

FIGURE L5-60



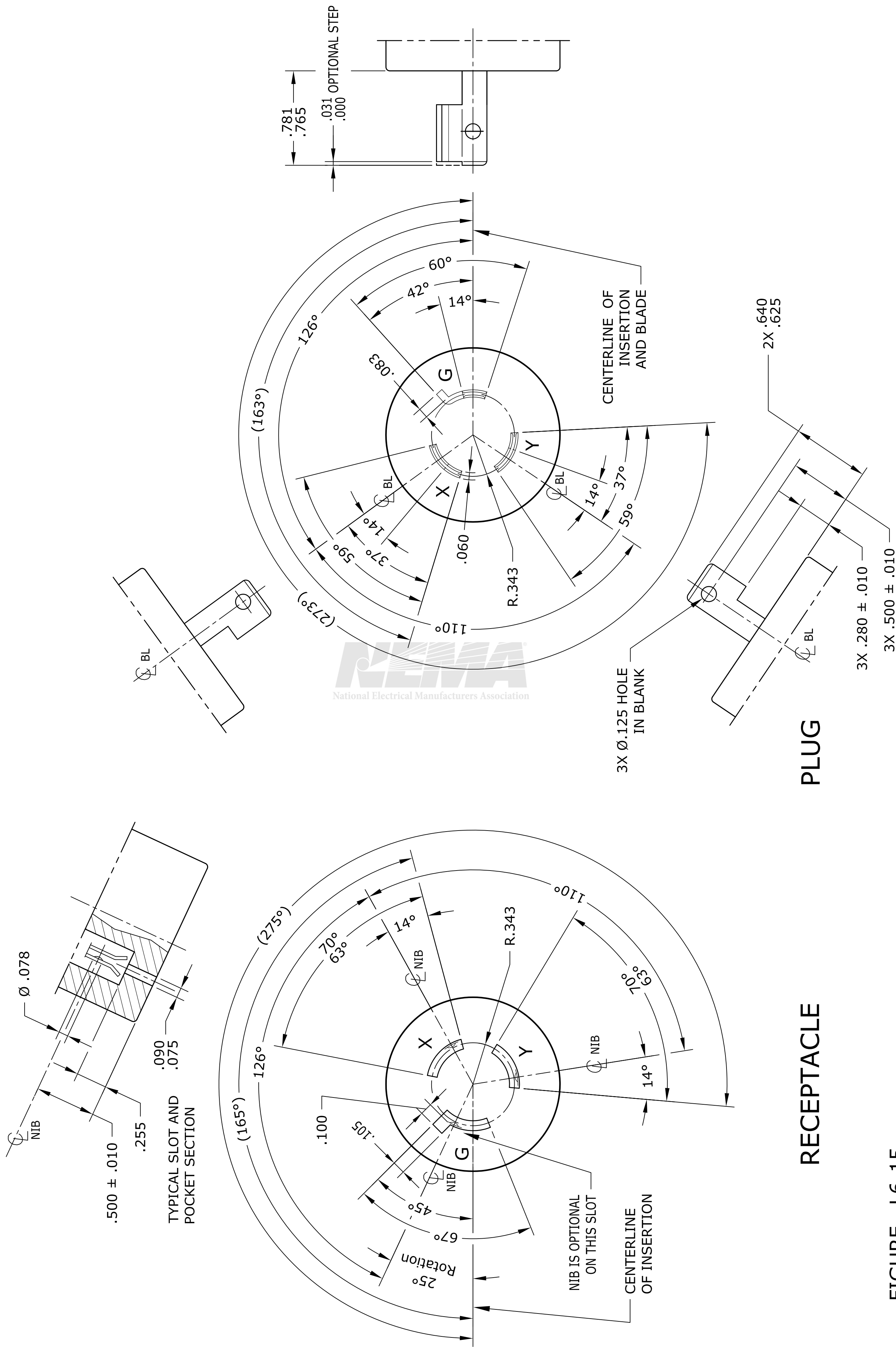
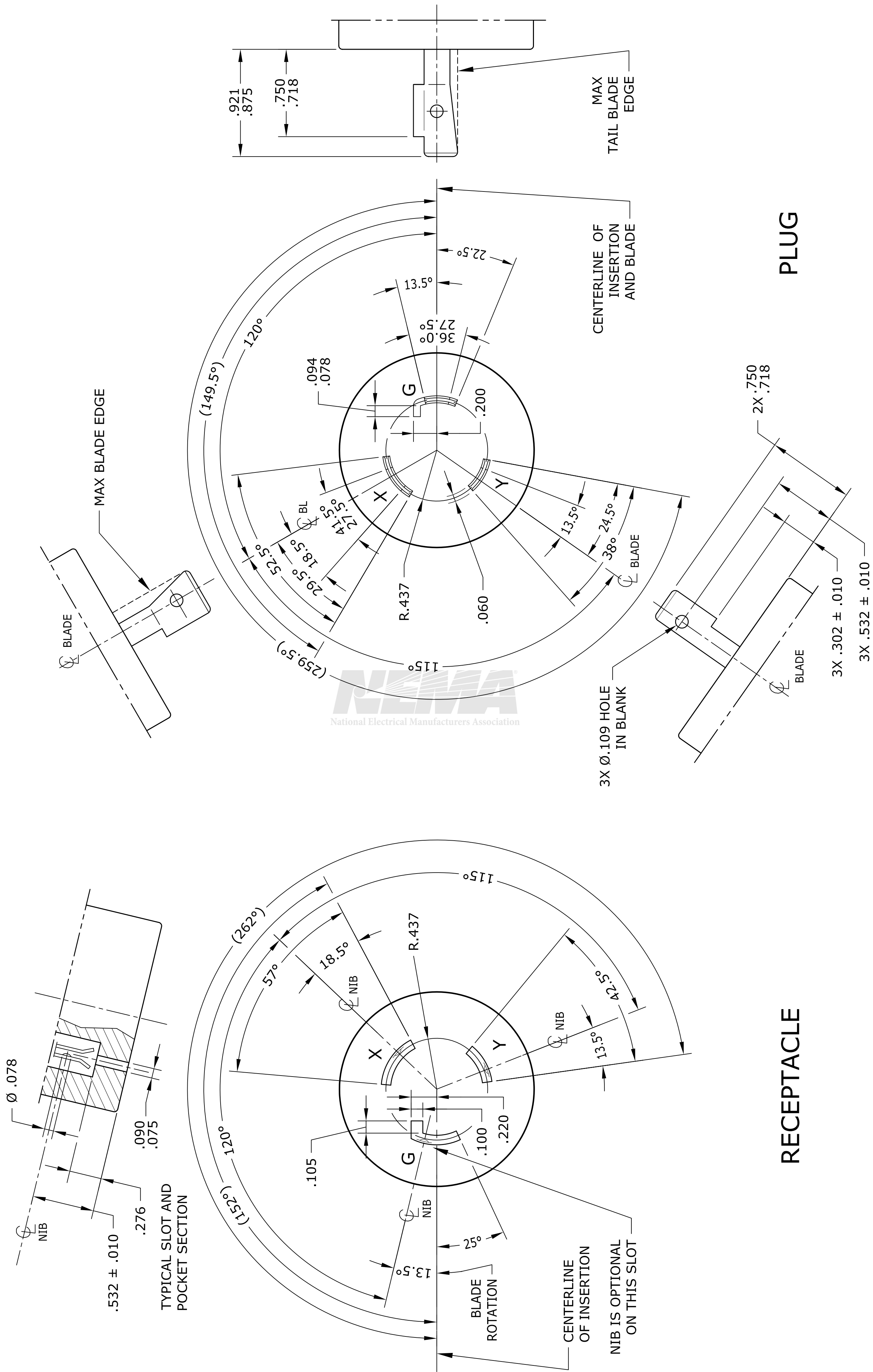


FIGURE L6-15
LOCKING TYPE PLUG AND RECEPTACLE
250 volts, 15 amperes, 2 pole, 3 wire, Grounding type

FIGURE L6-20
LOCKING TYPE PLUG AND RECEPTACLE
250 volts, 20 amperes, 2 pole, 3 wire, Grounding type



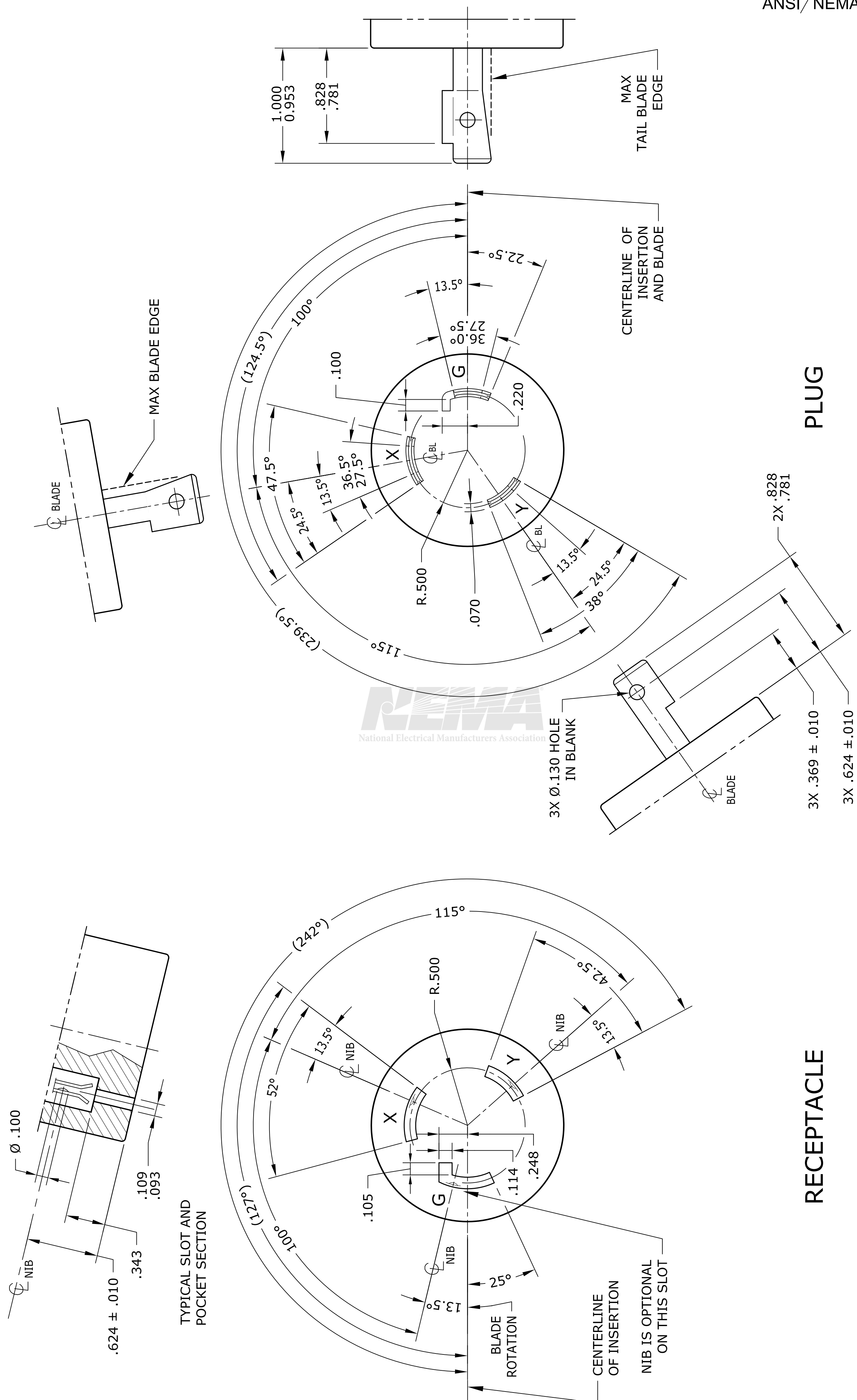
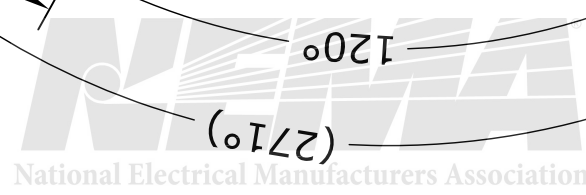
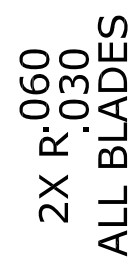
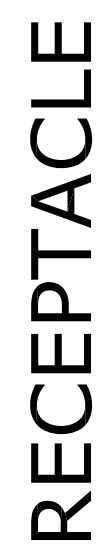


FIGURE L6-30
LOCKING TYPE PLUG AND RECEPTACLE
 250 volts, 30 amperes, 2 pole, 3 wire, Grounding type

FIGURE L6-50



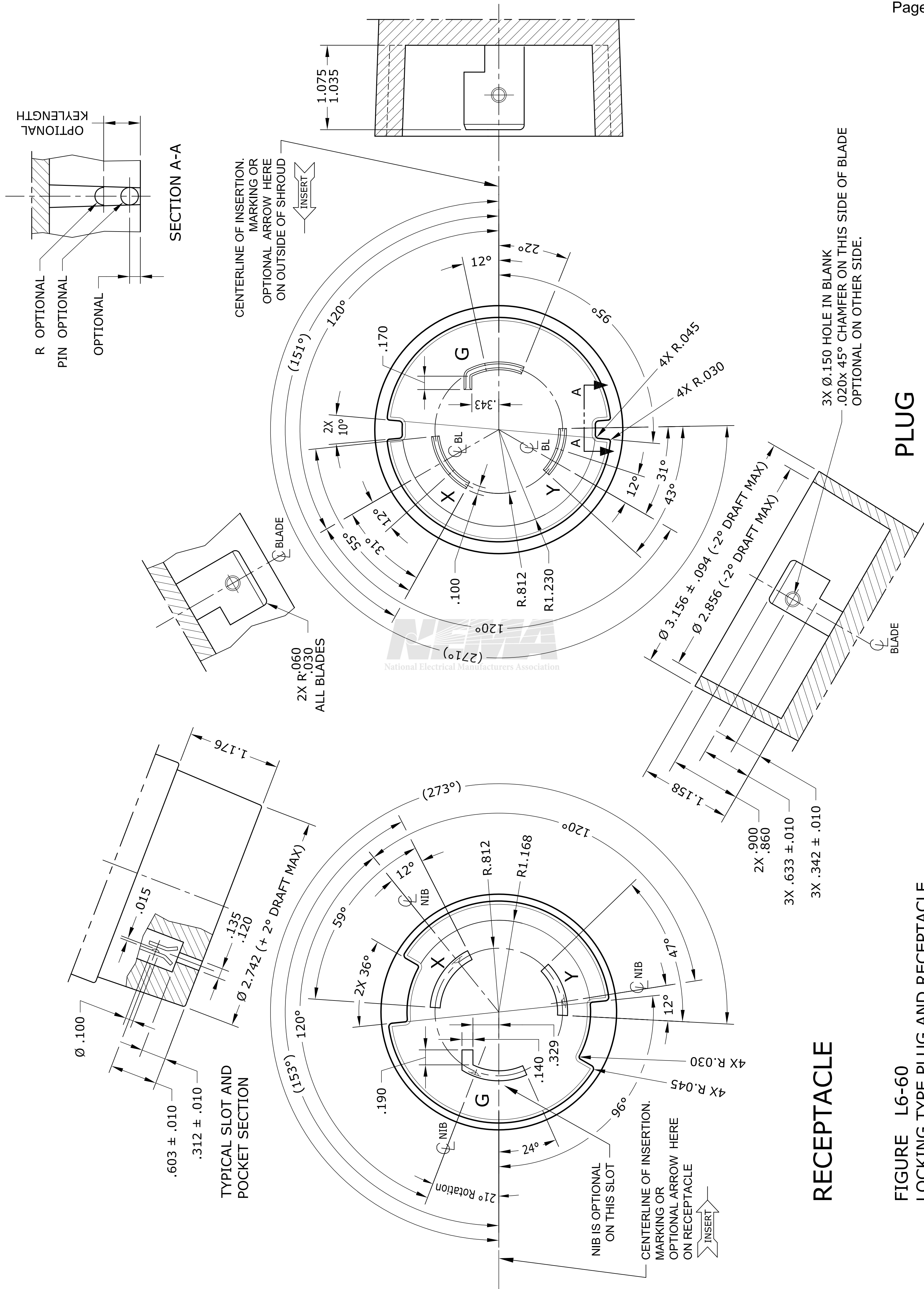
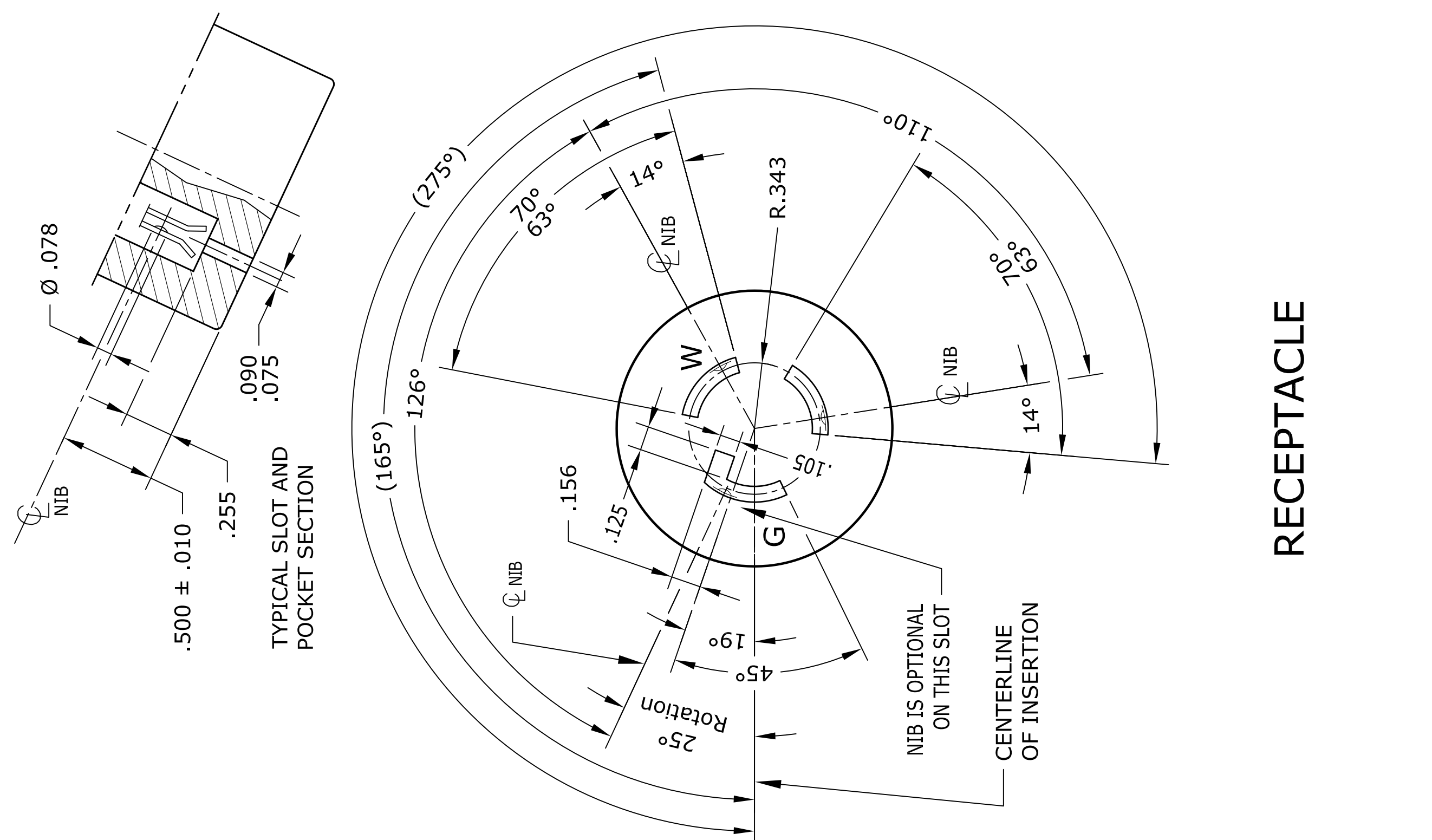


FIGURE L6-60
LOCKING TYPE PLUG AND RECEPTACLE
250 volts, 60 amperes, 2 pole, 3 wire, Grounding type

FIGURE L7-15



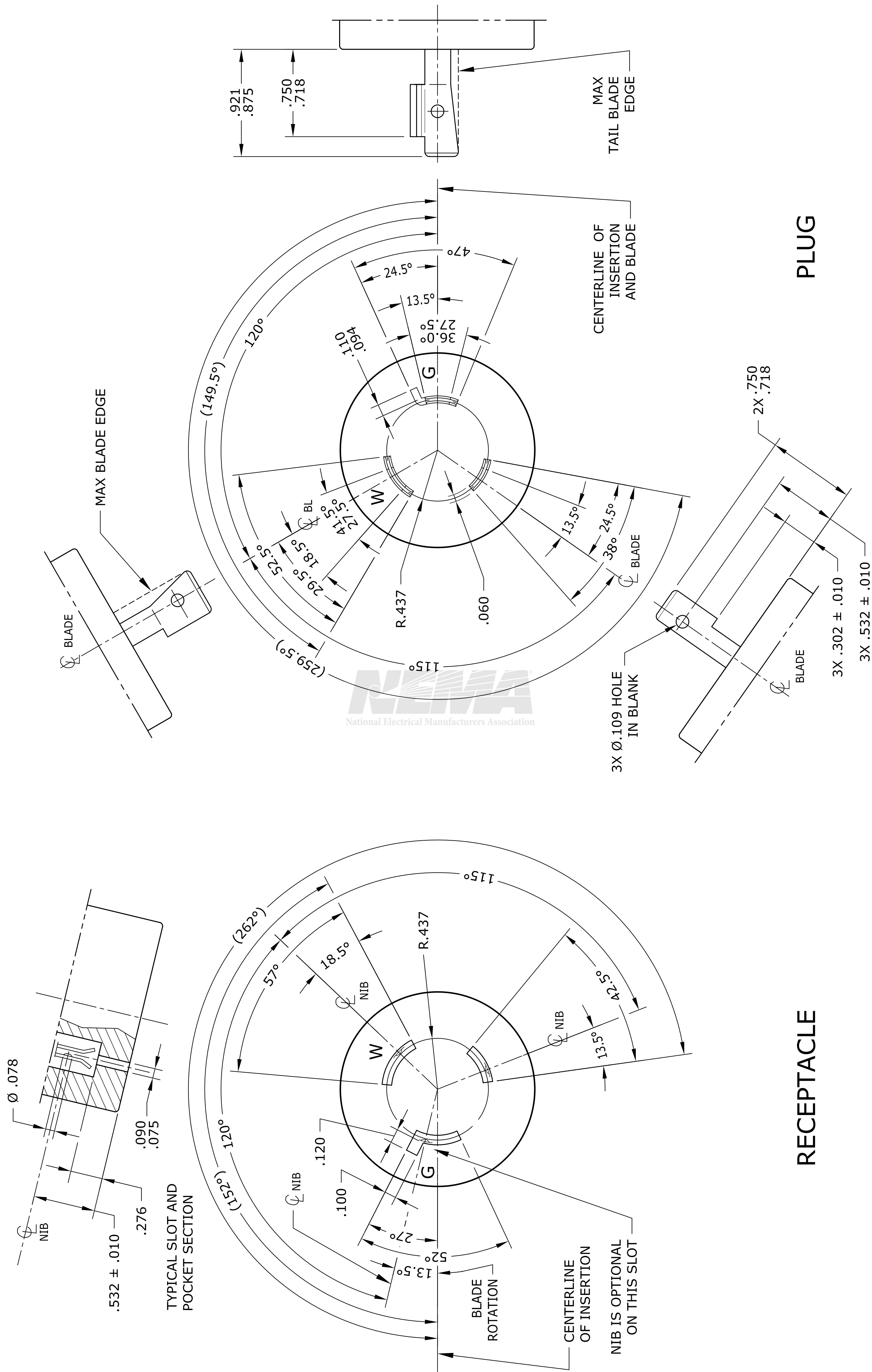


FIGURE L7-20
LOCKING TYPE PLUG AND RECEPTACLE
277 volts AC, 20 amperes, 2 pole, 3 wire, Grounding type

FIGURE L7-30
LOCKING TYPE PLUG AND RECEPTACLE
277 volts AC, 30 amperes, 2 pole, 3 wire, Grounding type

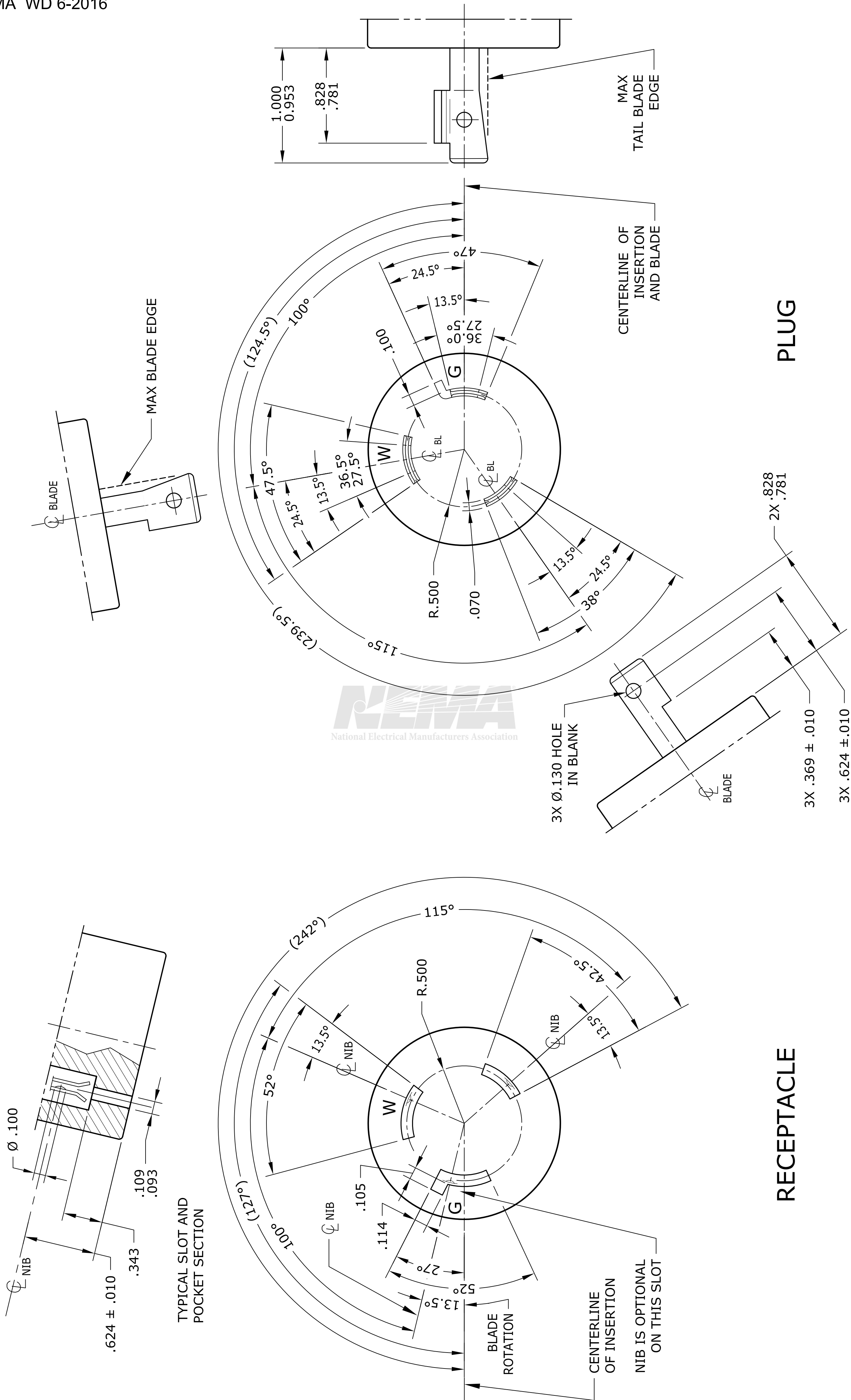
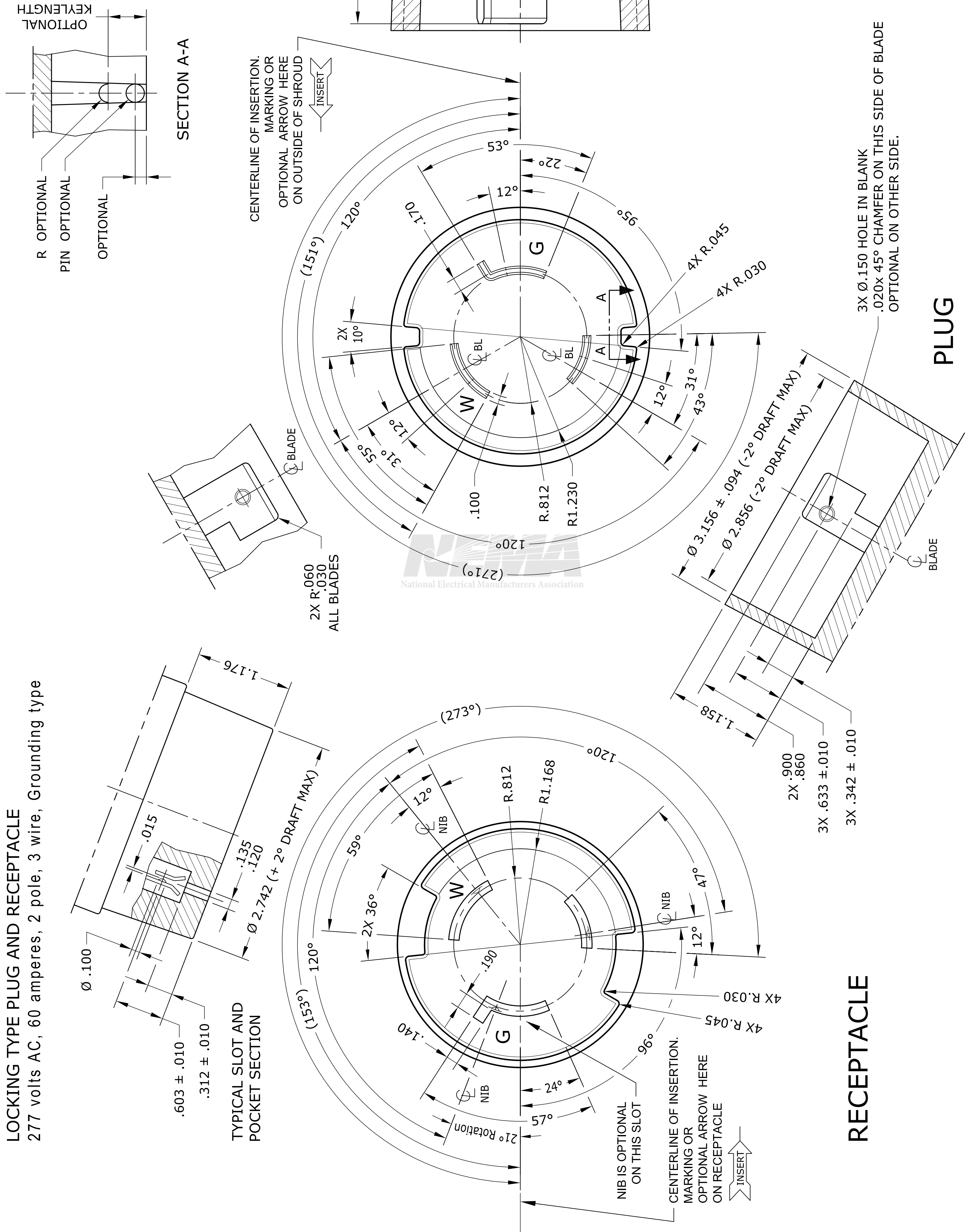




FIGURE L7-50
LOCKING TYPE PLUG AND RECEPTACLE
277 volts AC, 50 amperes, 2 pole, 3 wire,

FIGURE L7-60



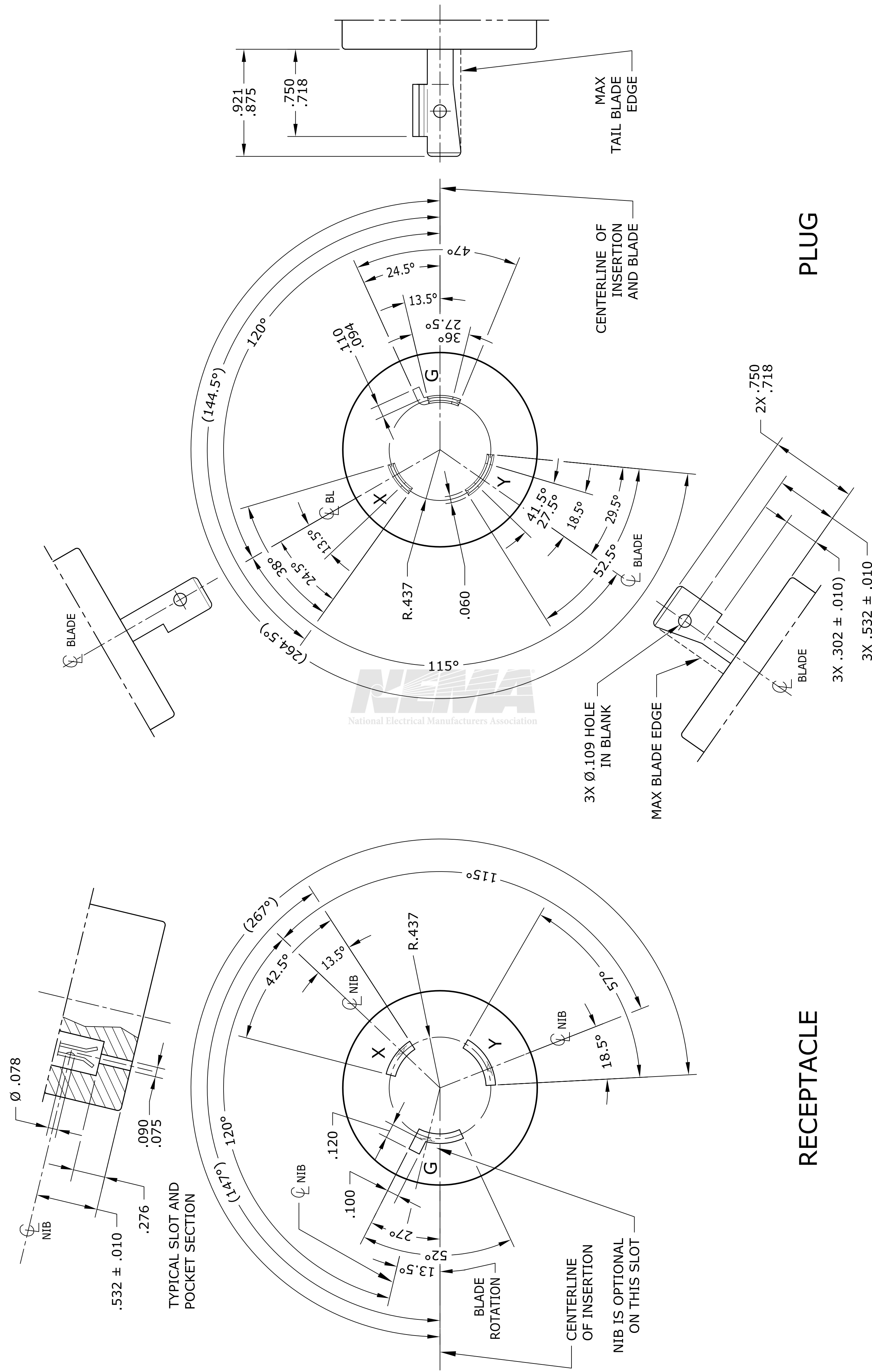


FIGURE L8-20
LOCKING TYPE PLUG AND RECEPTACLE
480 volts AC, 20 amperes, 2 pole, 3 wire, Grounding type

Ø .100

.109
.093

.343

.624 ± .010

NIB

TYPICAL SLOT AND
POCKET SECTION

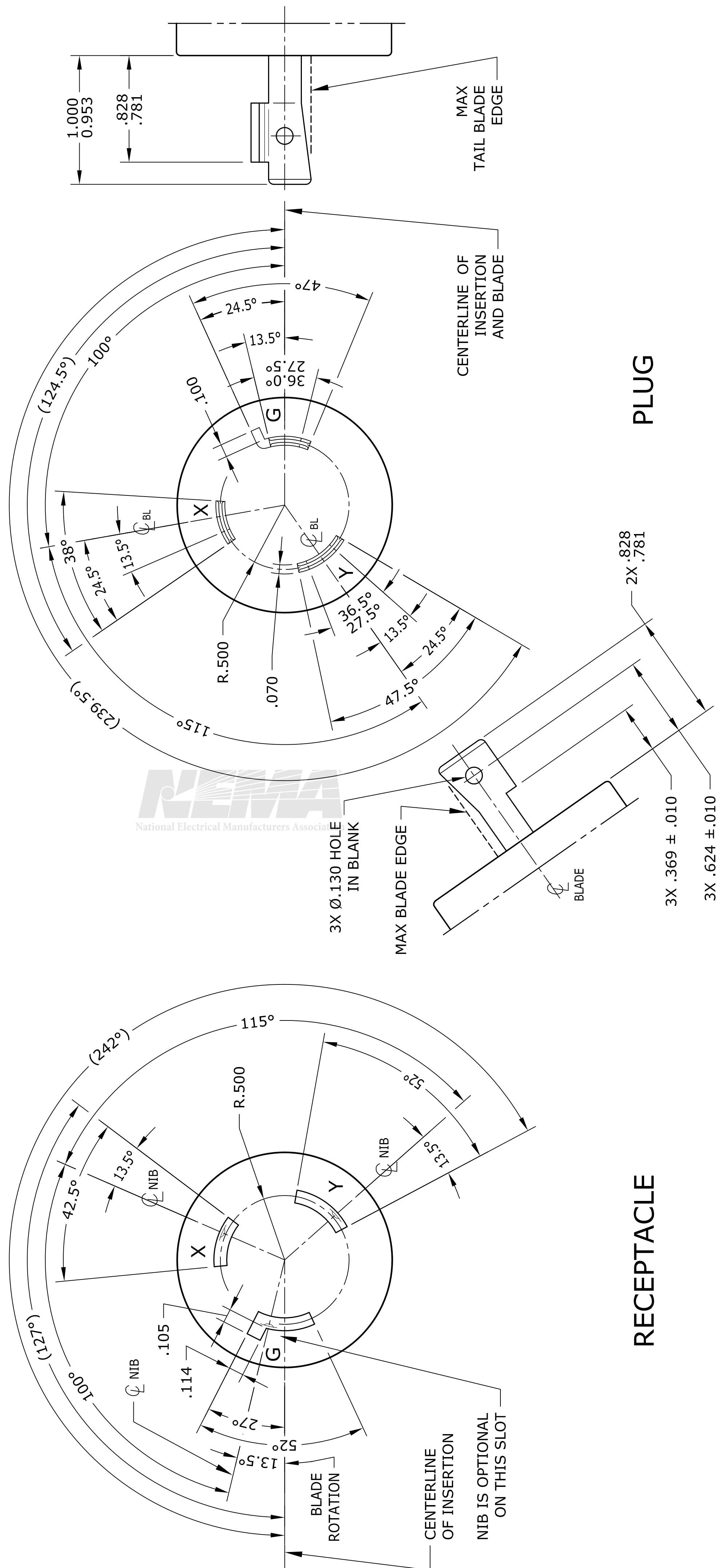
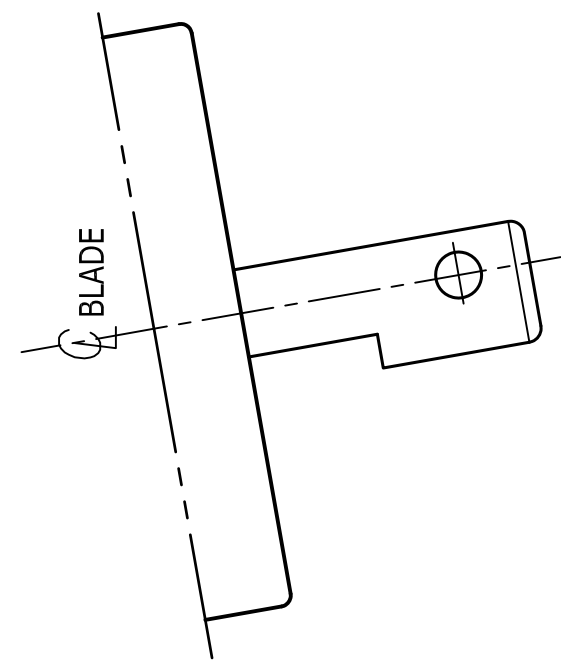
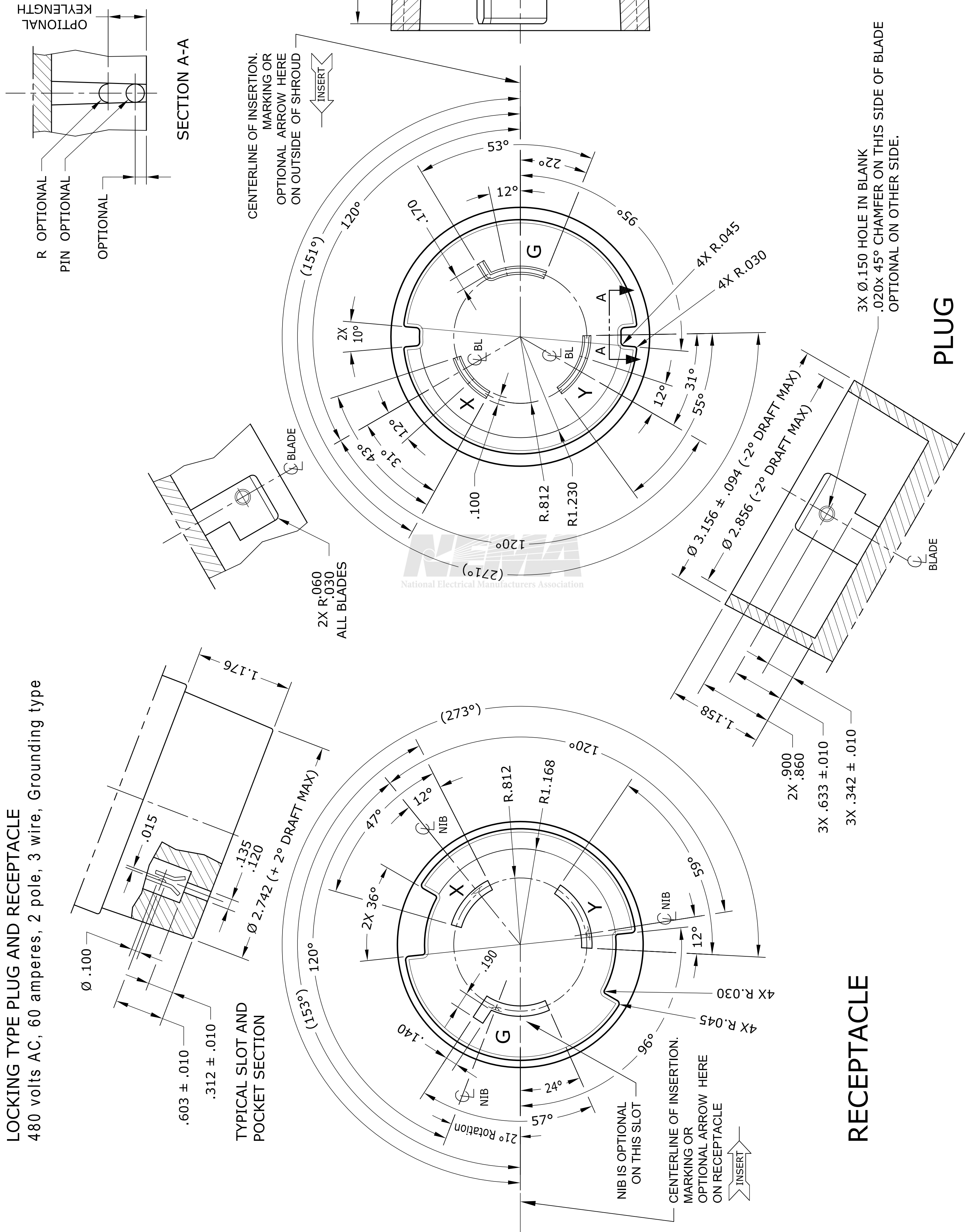


FIGURE L8-60



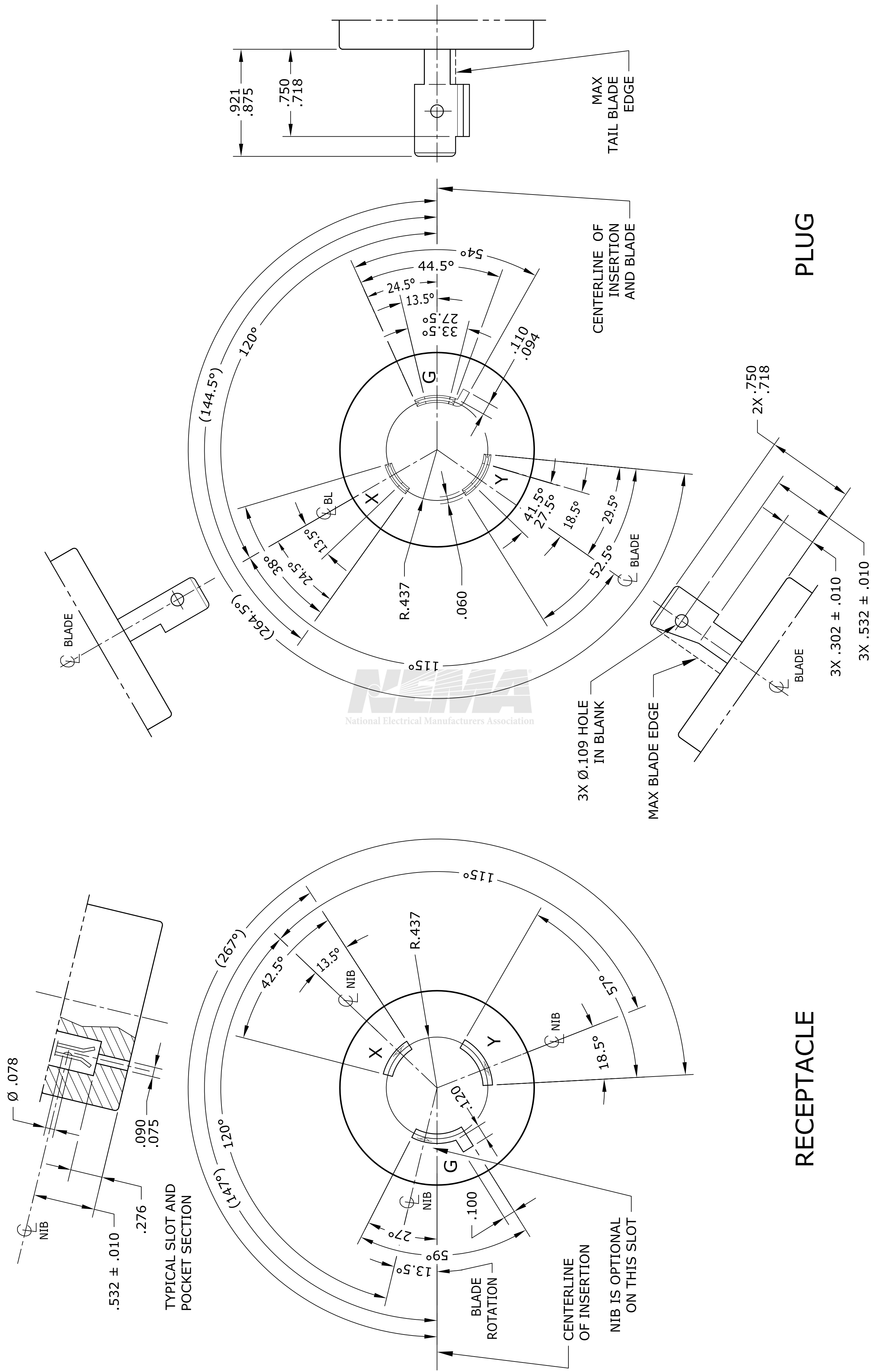
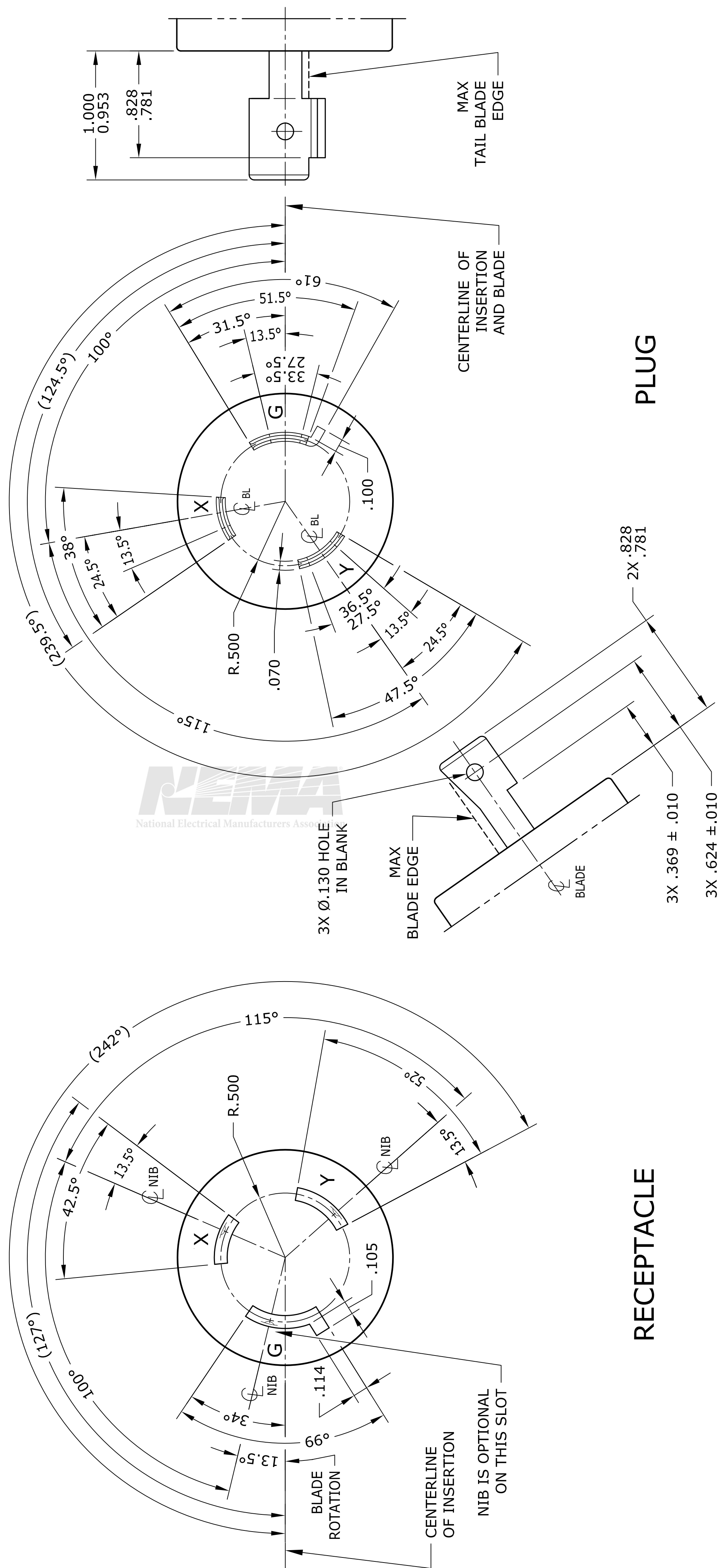


FIGURE L9-20
LOCKING TYPE PLUG AND RECEPTACLE
600 volts AC, 20 amperes, 2 pole, 3 wire, Grounding type

Technical drawing of a mechanical part showing a cross-section. The drawing includes the following dimensions and features:

- Ø .100: Diameter of the central hole.
- .109: Dimension of the upper section.
- .093: Dimension of the lower section.
- .343: Dimension of the central section.
- .624 ± .010: Total length of the part.
- NIB: Feature callout for a fillet or chamfer.

TYPICAL SLOT AND POCKET SECTION



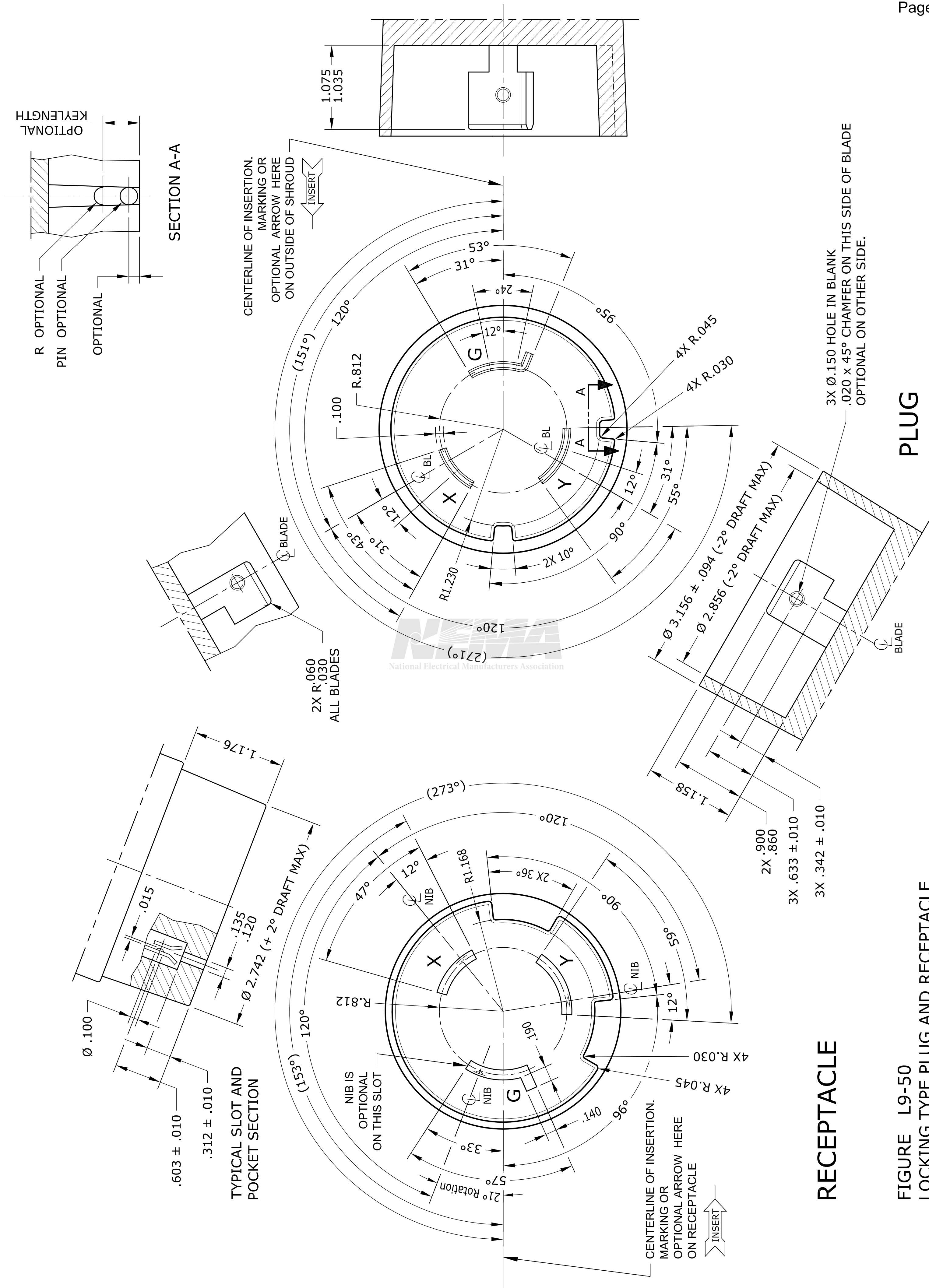


FIGURE L9-50
LOCKING TYPE PLUG AND RECEPTACLE
600 volts AC, 50 amperes, 2 pole, 3 wire, Grounding type

FIGURE L9-60

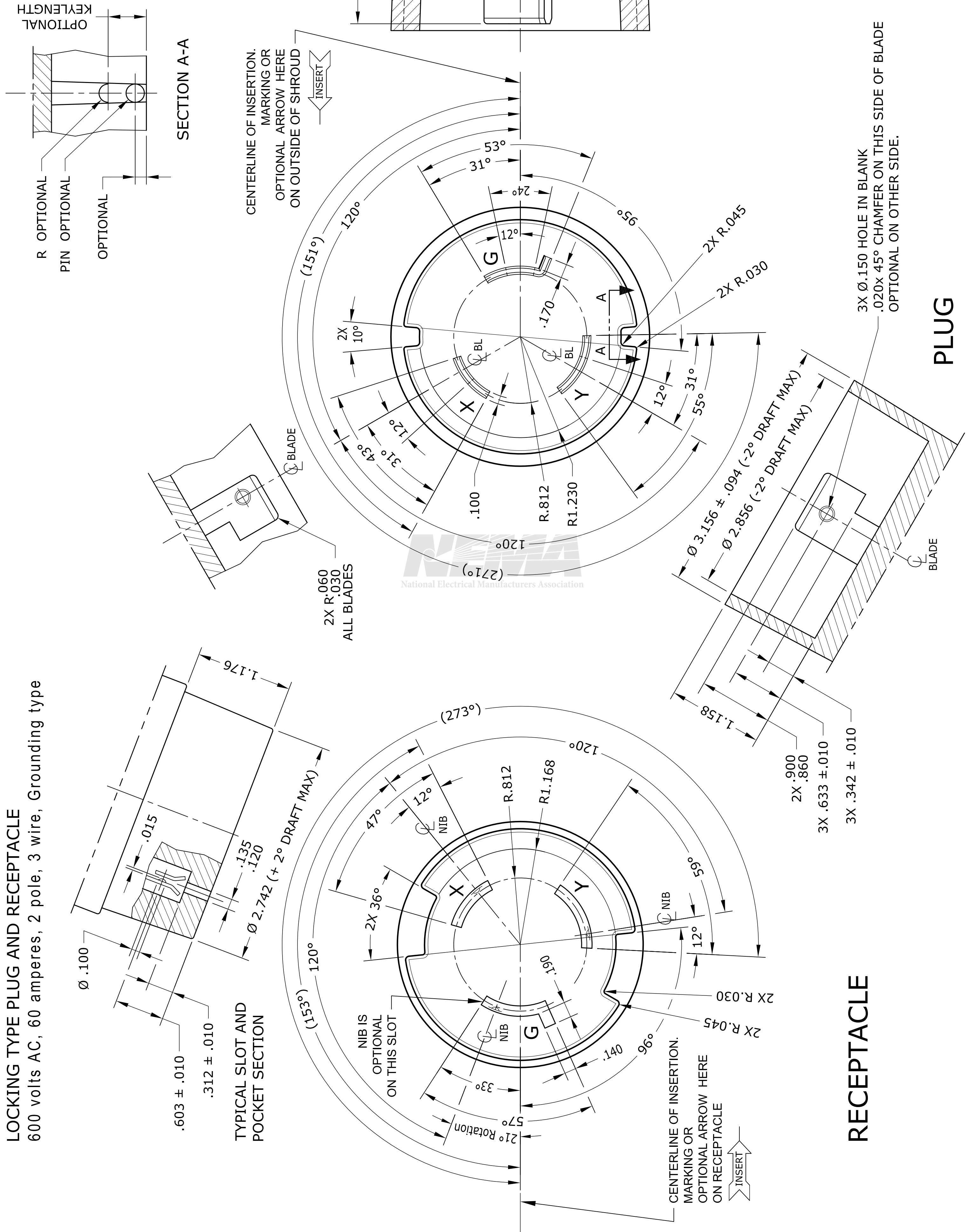
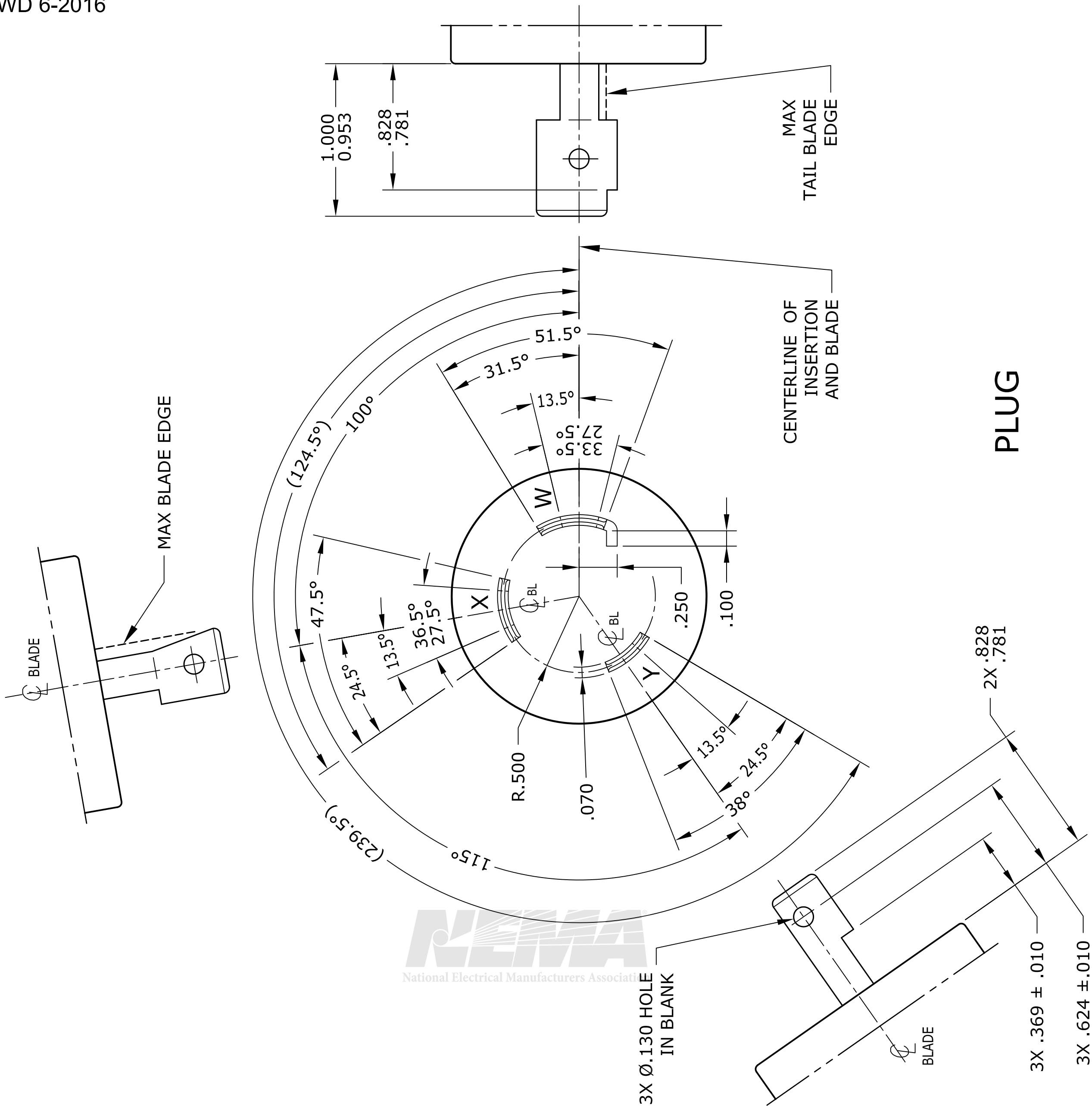
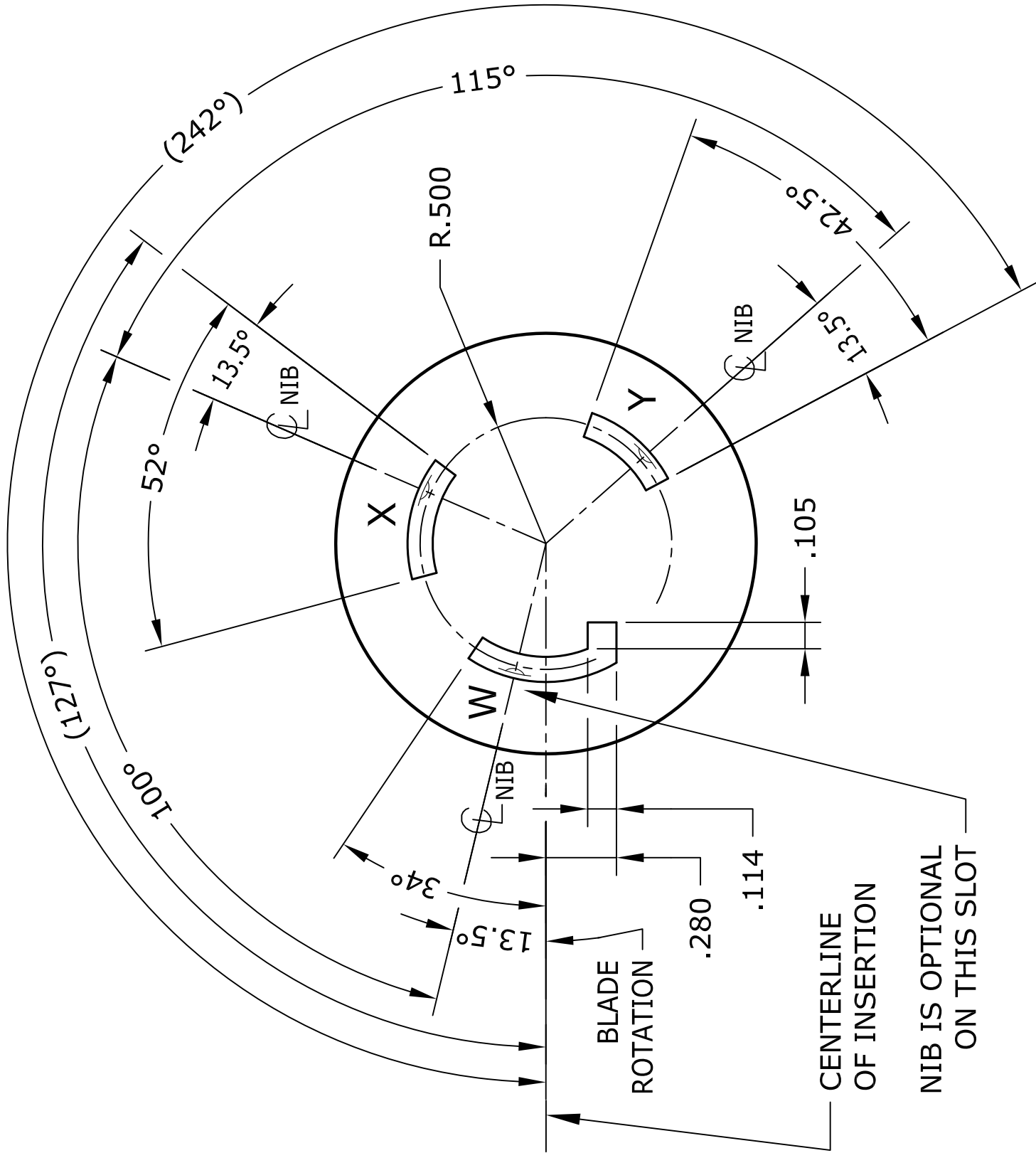
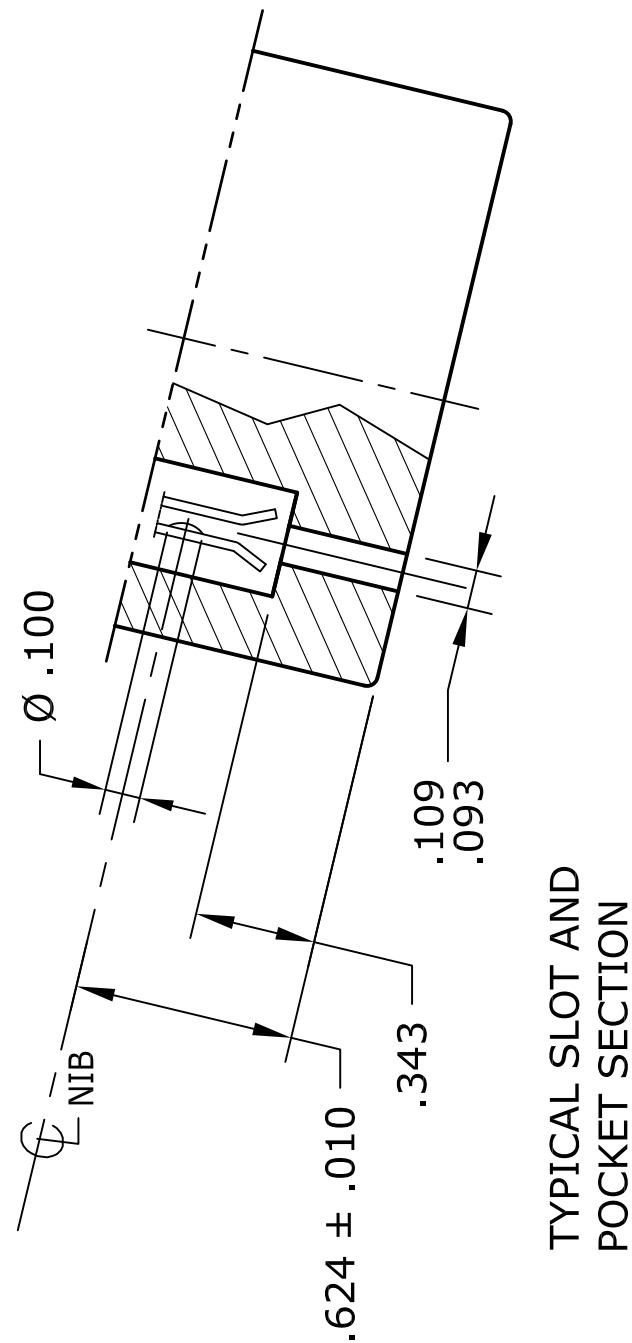




FIGURE L10-20
LOCKING TYPE PLUG AND RECEPTACLE
125/250 volts, 20 amperes, 3 pole, 3 wire

FIGURE L10-30
LOCKING TYPE PLUG AND RECEPTACLE
125/250 volts, 30 amperes, 3 pole, 3 wire



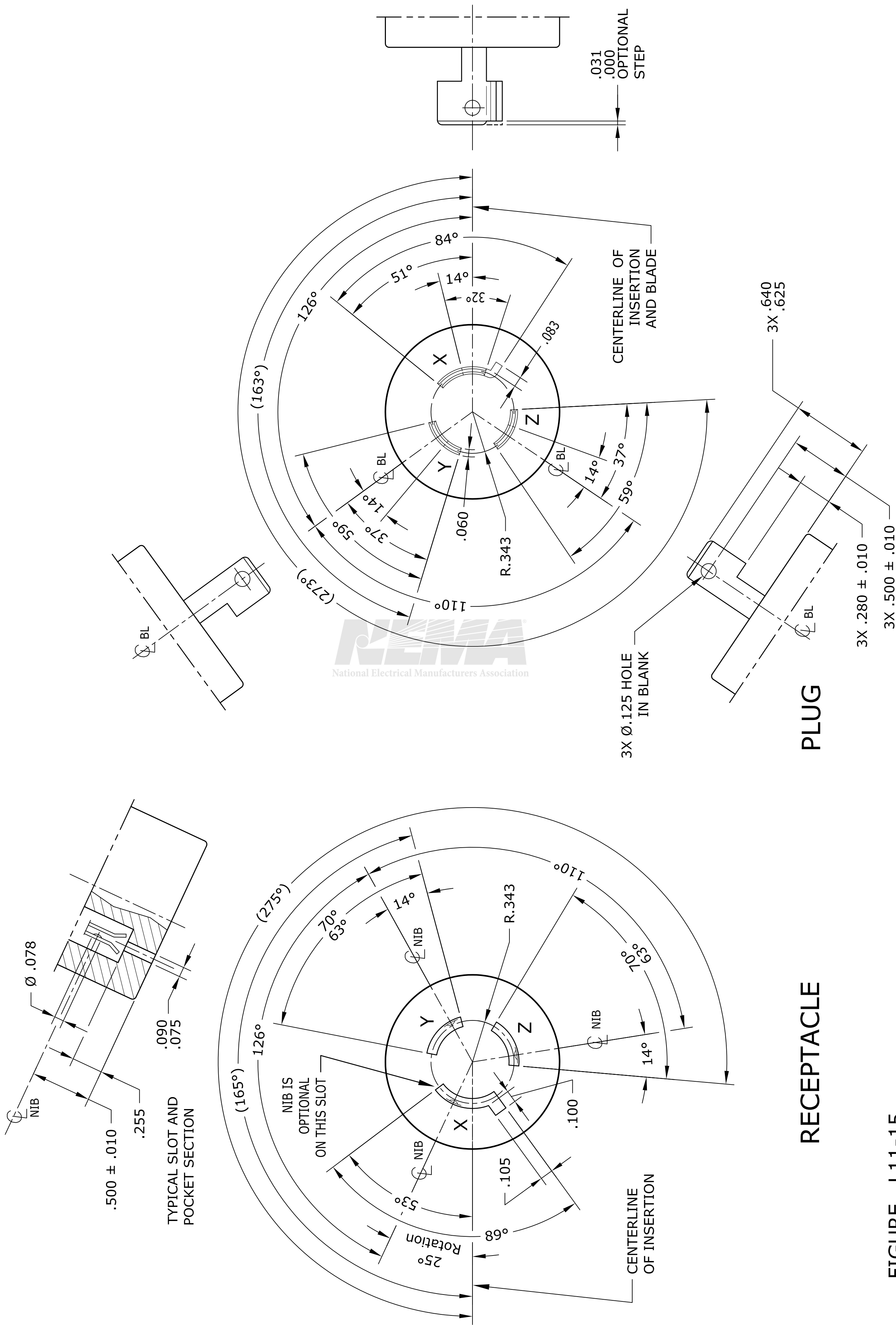
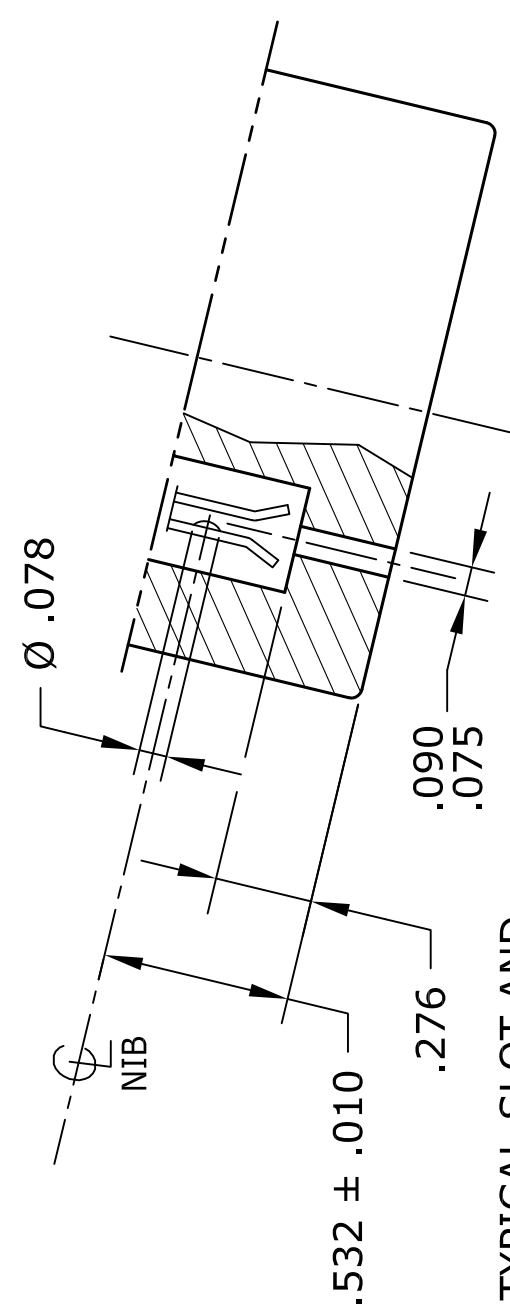


FIGURE L11-15
LOCKING TYPE PLUG AND RECEPTACLE
250 volts, 15 amperes, 3 phase, 3 pole, 3 wire

FIGURE L11-20



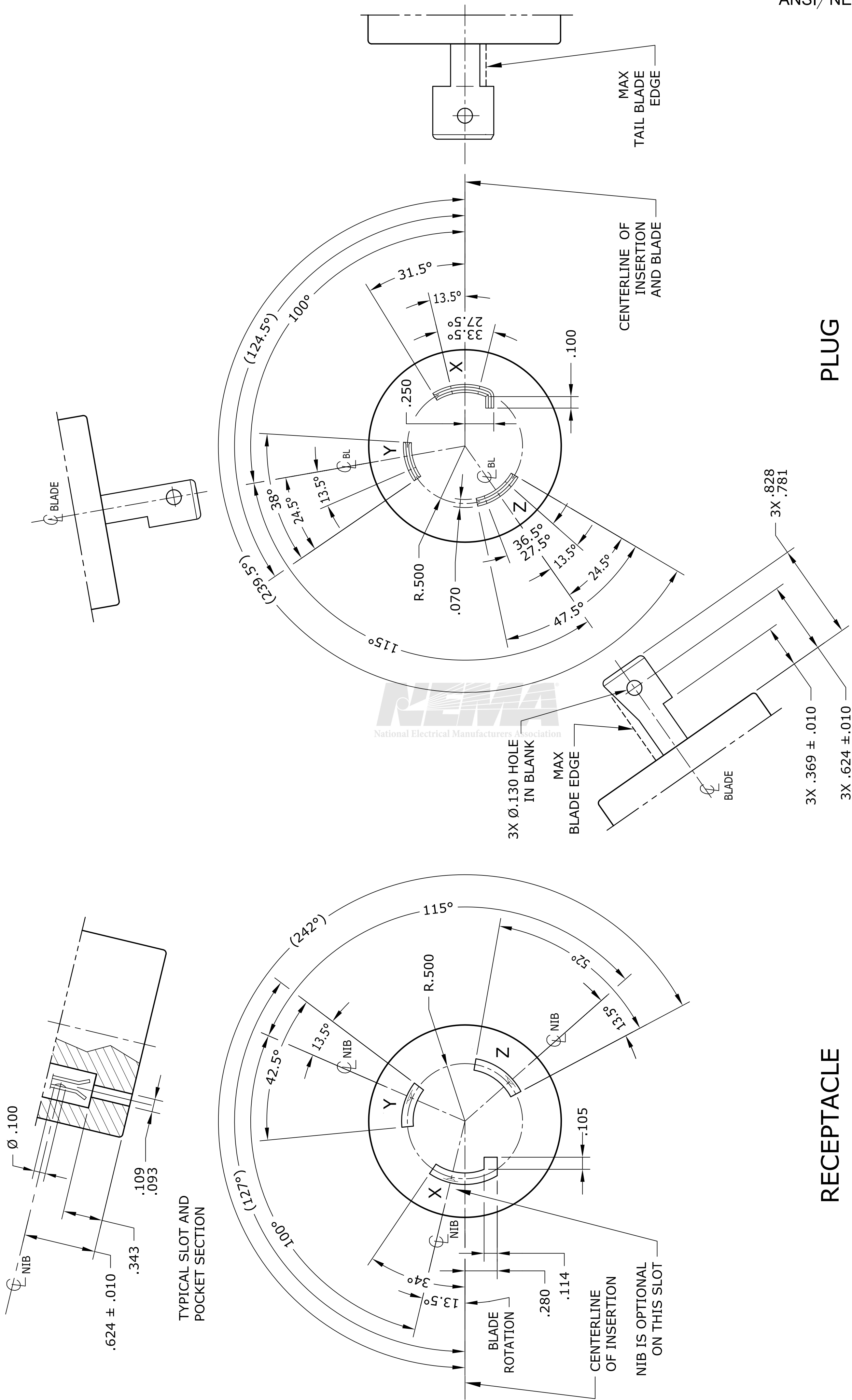
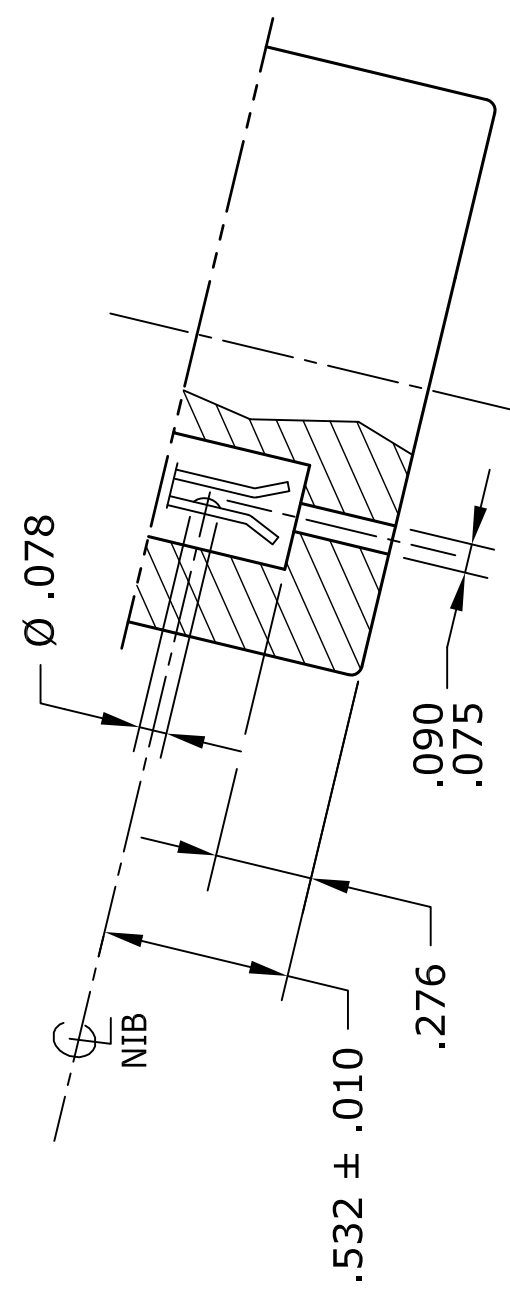


FIGURE L11-30
LOCKING TYPE PLUG AND RECEPTACLE
250 volts, 30 amperes, 3 phase, 3 pole, 3 wire

FIGURE L12-20





RECEPTACLE

FIGURE L12-30
LOCKING TYPE PLUG AND RECEPTACLE
480 volts, 30 amperes, 3 phase, 3 pole, 3 wire

FIGURE L13-30
LOCKING TYPE PLUG AND RECEPTACLE
600 volts, 30 amperes, 3 phase, 3 pole, 3 wire

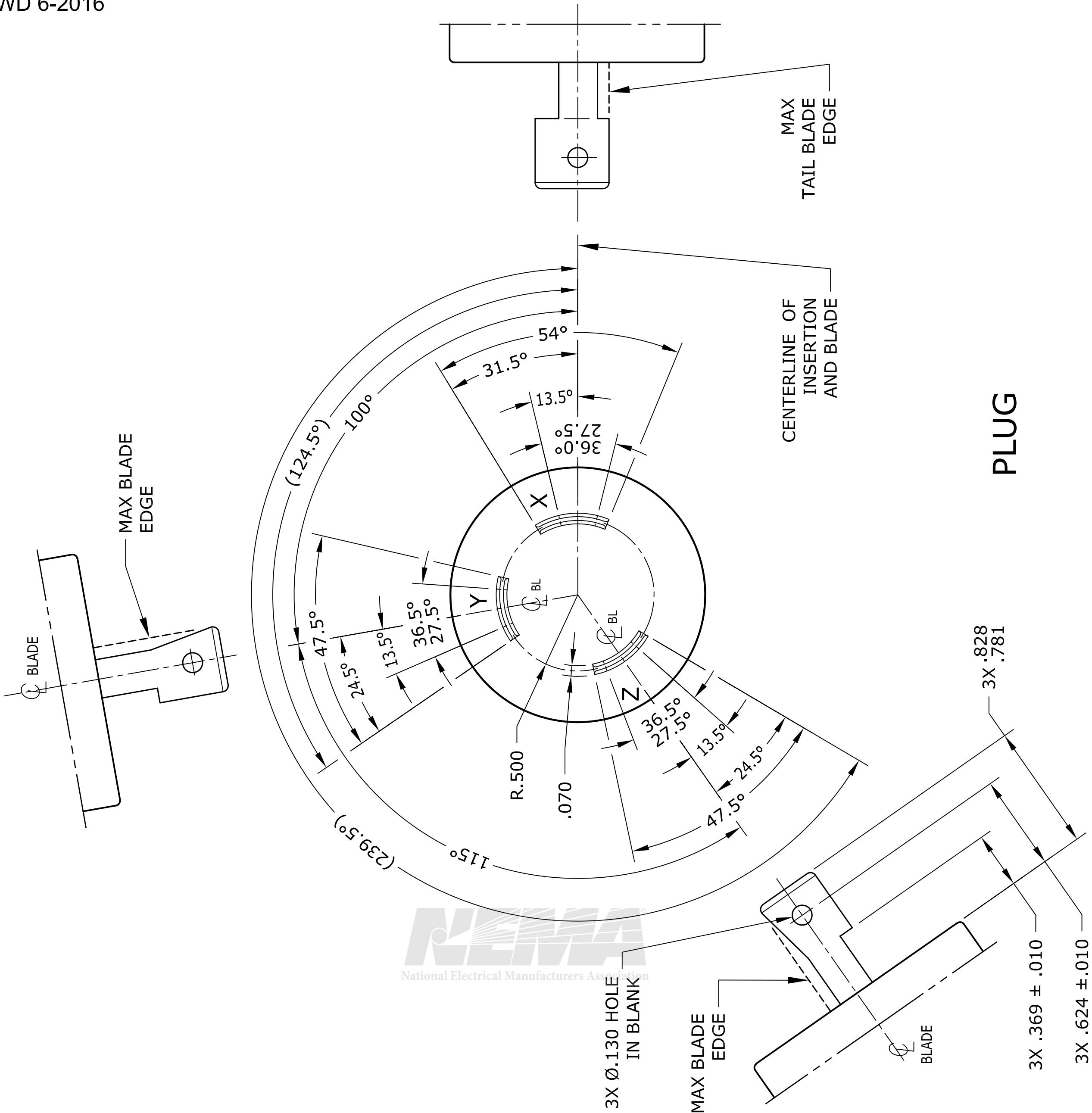
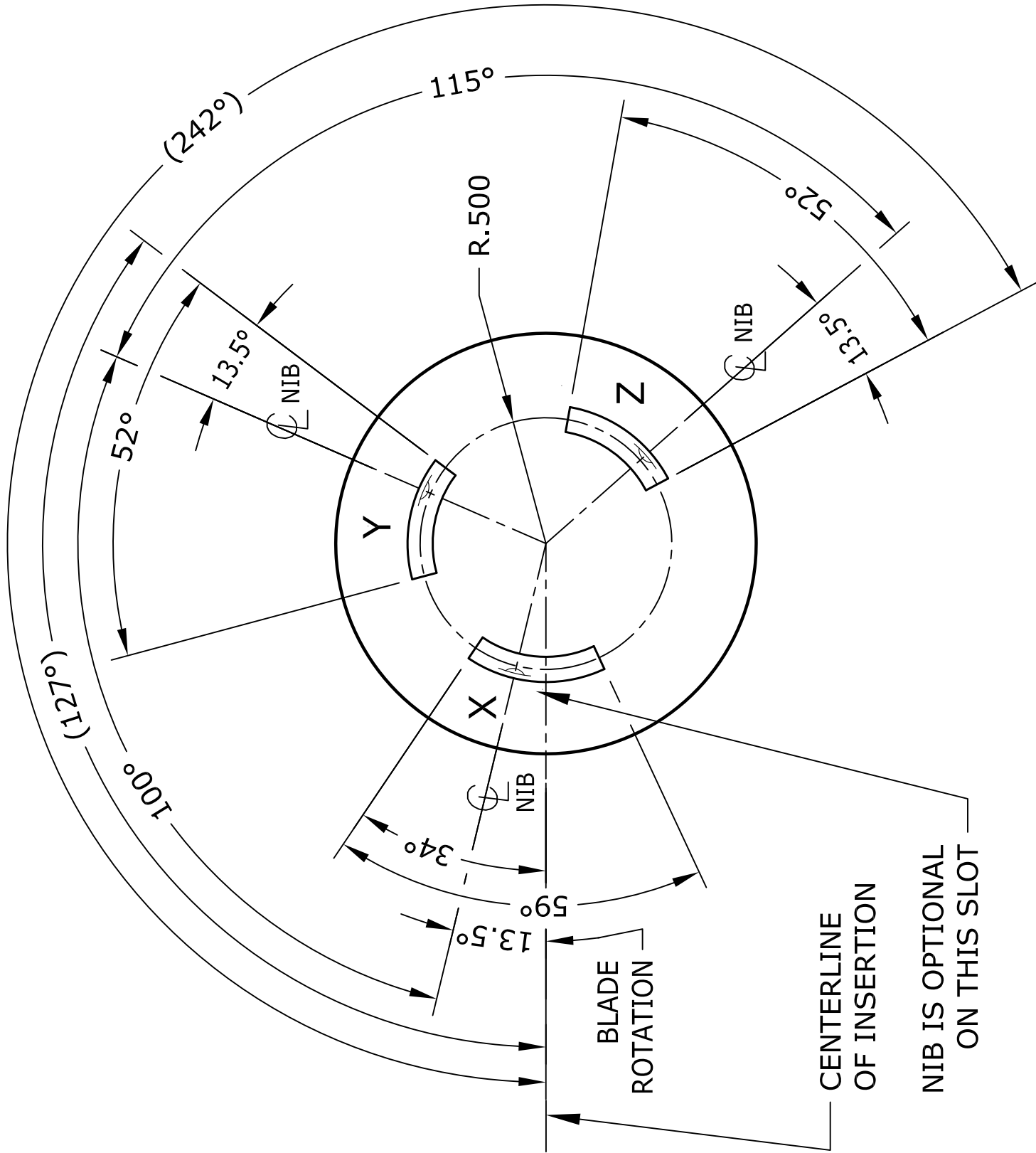
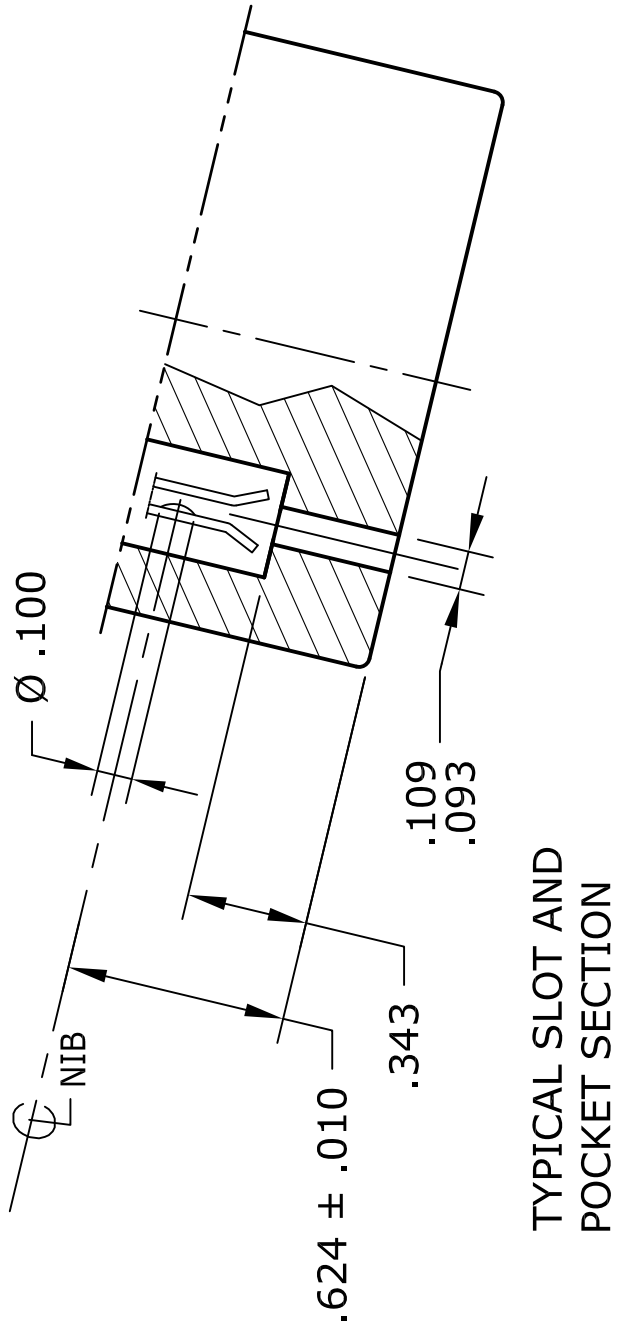




FIGURE L14-20
LOCKING TYPE PLUG AND RECEPTACLE
125/250 volts, 20 amperes, 3 pole, 4 wire, Grounding type

TYPICAL SLOT AND
POCKET SECTION

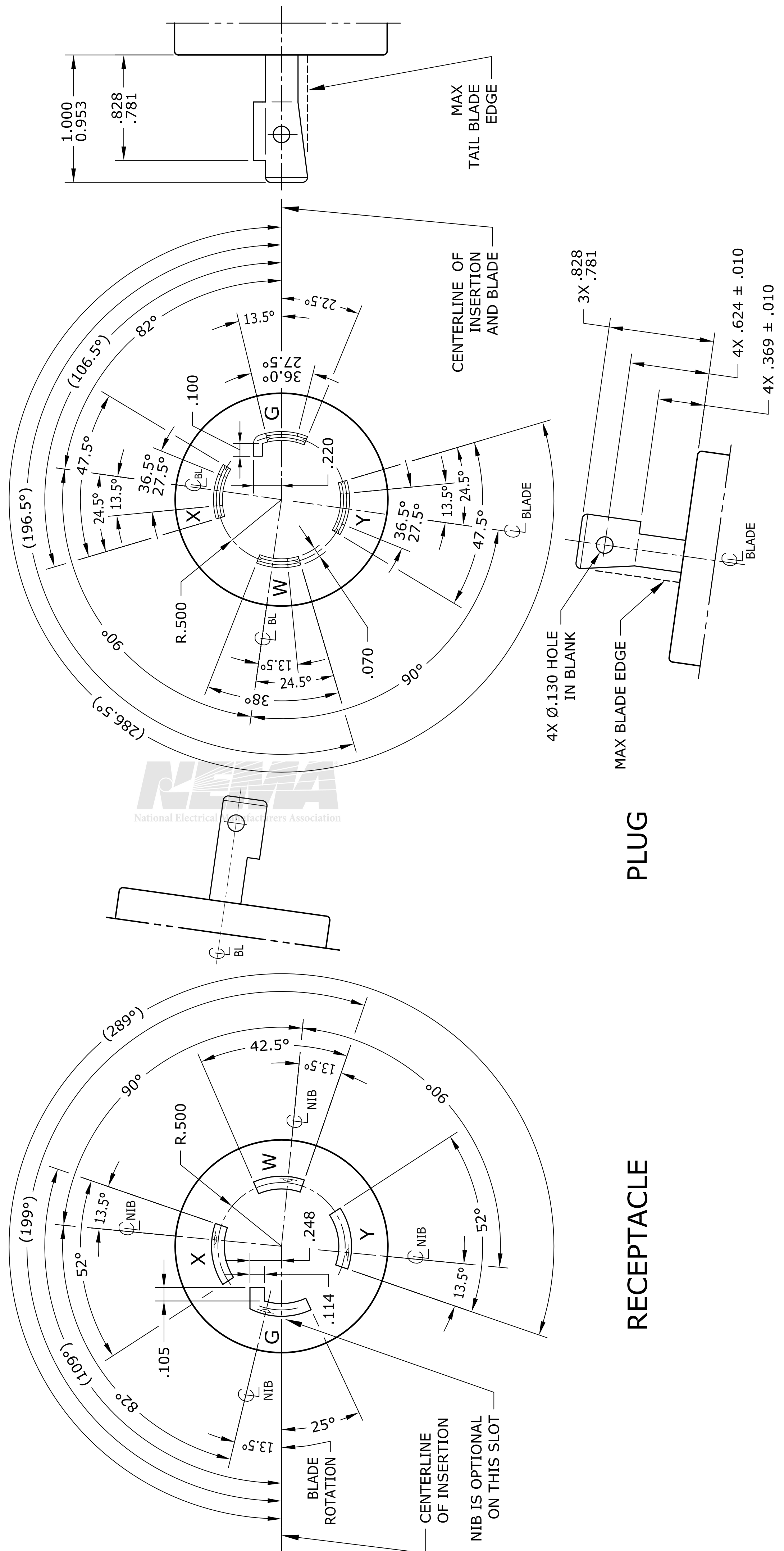


FIGURE L14-60

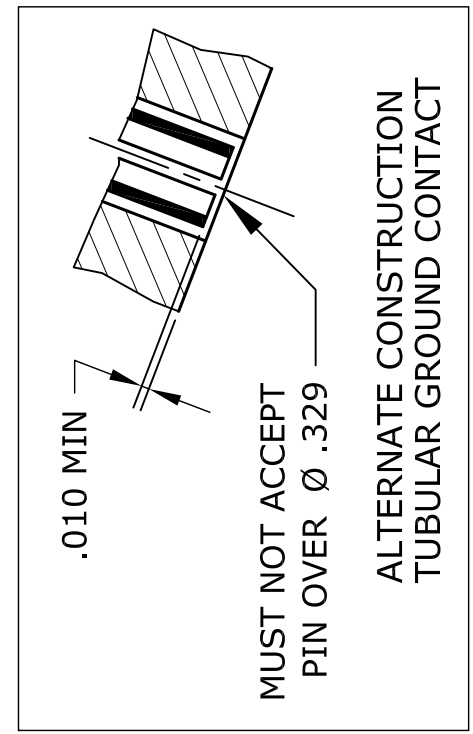




FIGURE L15-20
LOCKING TYPE PLUG AND RECEPTACLE
250 volts, 20 amperes, 3 phase, 3 pole, 4 wire, Grounding type

FIGURE L15-30



RECEPTACLE



FIGURE L15-50
LOCKING TYPE PLUG AND RECEPTACLE
250 volts, 50 amperes, 3 phase, 3 pole, 4 wire, Grounding type

FIGURE L15-60

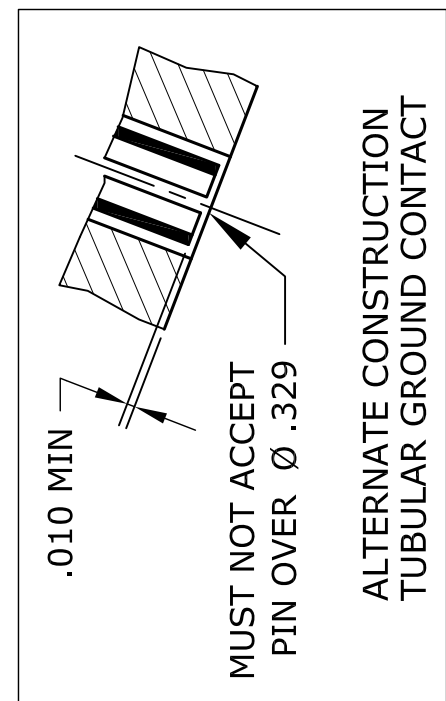




FIGURE L16-20
LOCKING TYPE PLUG AND RECEPTACLE
480 volts, 20 amperes, 3 phase, 3 pole, 4 wire, Grounding type

FIGURE L16-30



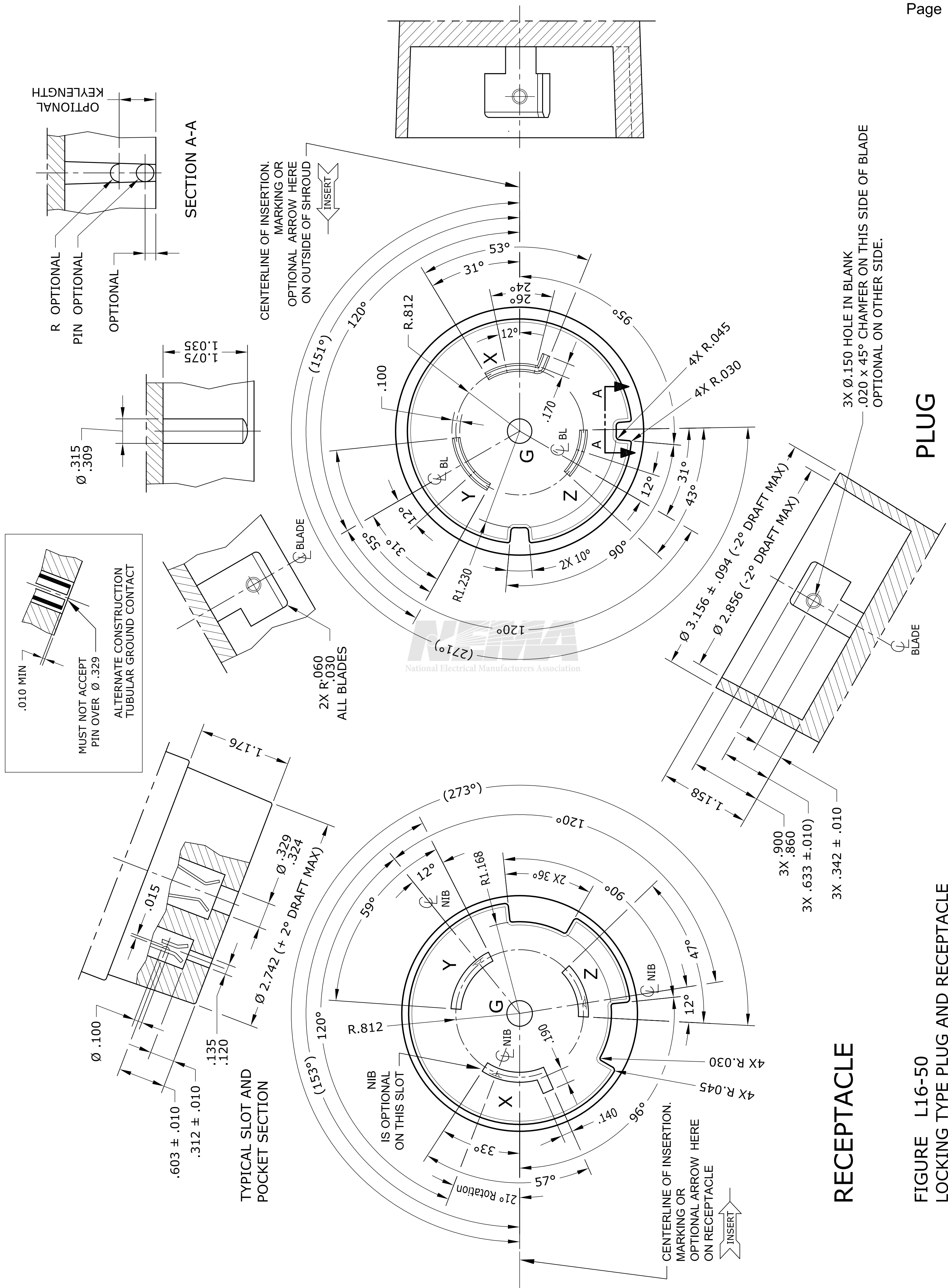


FIGURE L16-50
LOCKING TYPE PLUG AND RECEPTACLE
480 volts, 50 amperes, 3 phase, 3 pole, 4 wire, Grounding type

FIGURE L16-60

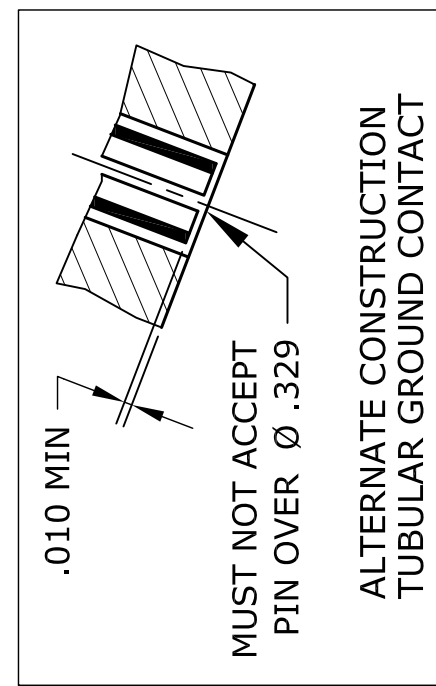
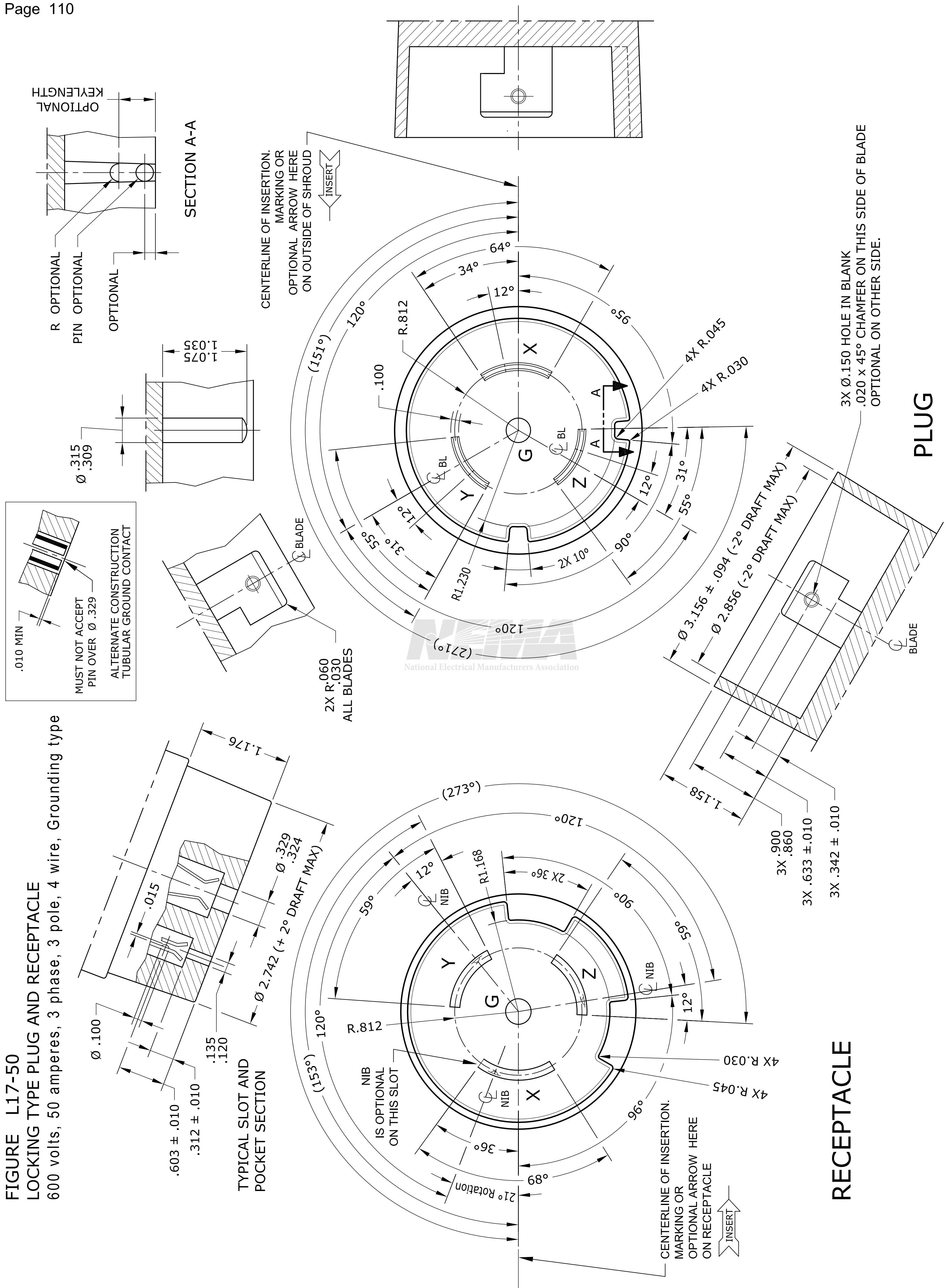




FIGURE L17-30
LOCKING TYPE PLUG AND RECEPTACLE
600 volts, 30 amperes, 3 phase, 3 pole, 4 wire, Grounding type

Diagram illustrating an alternate construction for tubular ground contact. The diagram shows a cross-section of a cable with two conductors. One conductor is labeled with a minimum thickness of .010 MIN. The other conductor is labeled with a diameter over .329. The diagram is labeled "ALTERNATE CONSTRUCTION TUBULAR GROUND CONTACT" and "MUST NOT ACCEPT PIN OVER Ø .329".



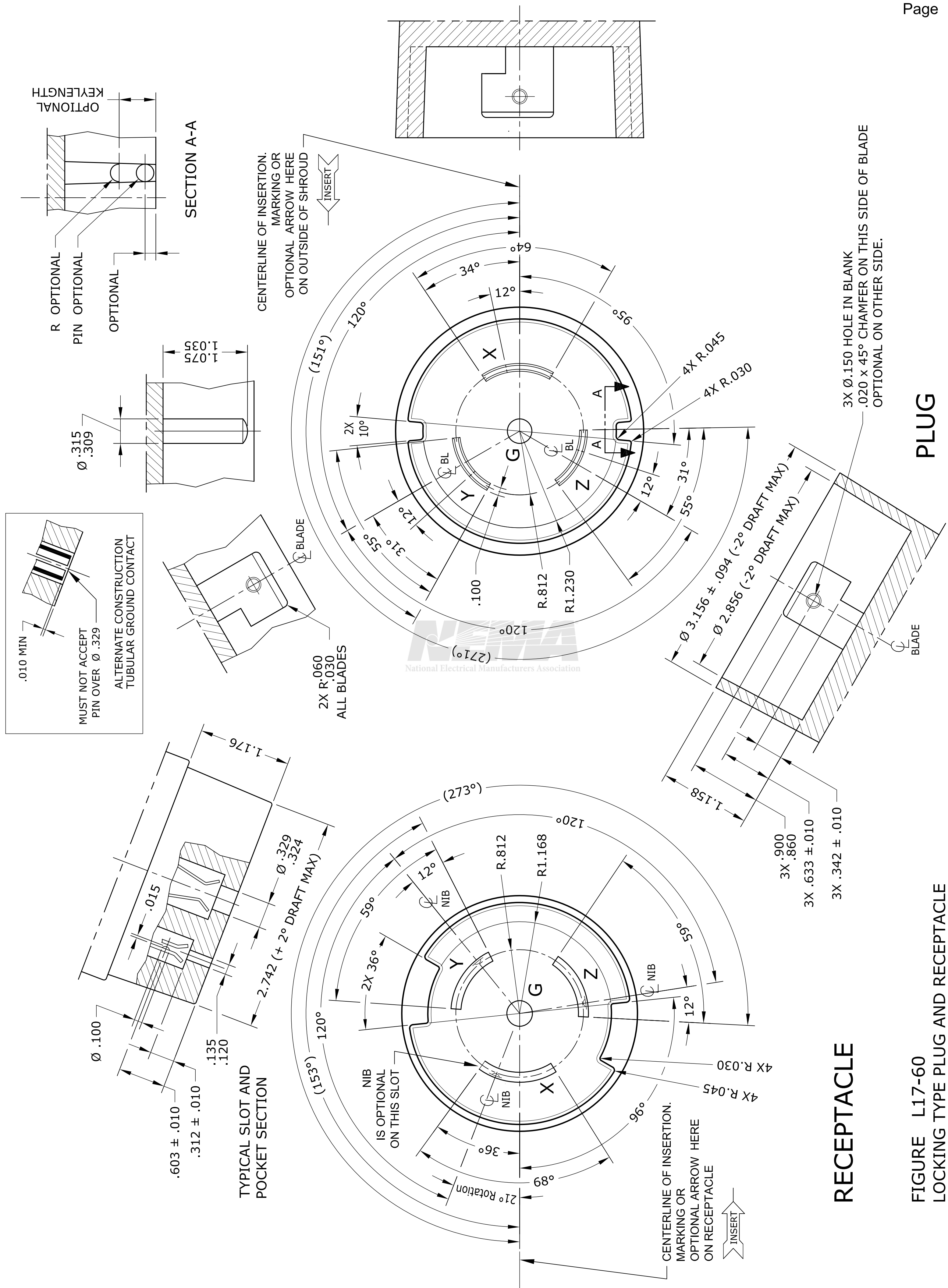


FIGURE L17-60
LOCKING TYPE PLUG AND RECEPTACLE
600 volts, 60 amperes, 3 phase, 3 pole, 4 wire, Grounding type

FIGURE L18-20
LOCKING TYPE PLUG AND RECEPTACLE
120/208 volts, 20 amperes, 3 phase Y, 4 pole, 4 wire

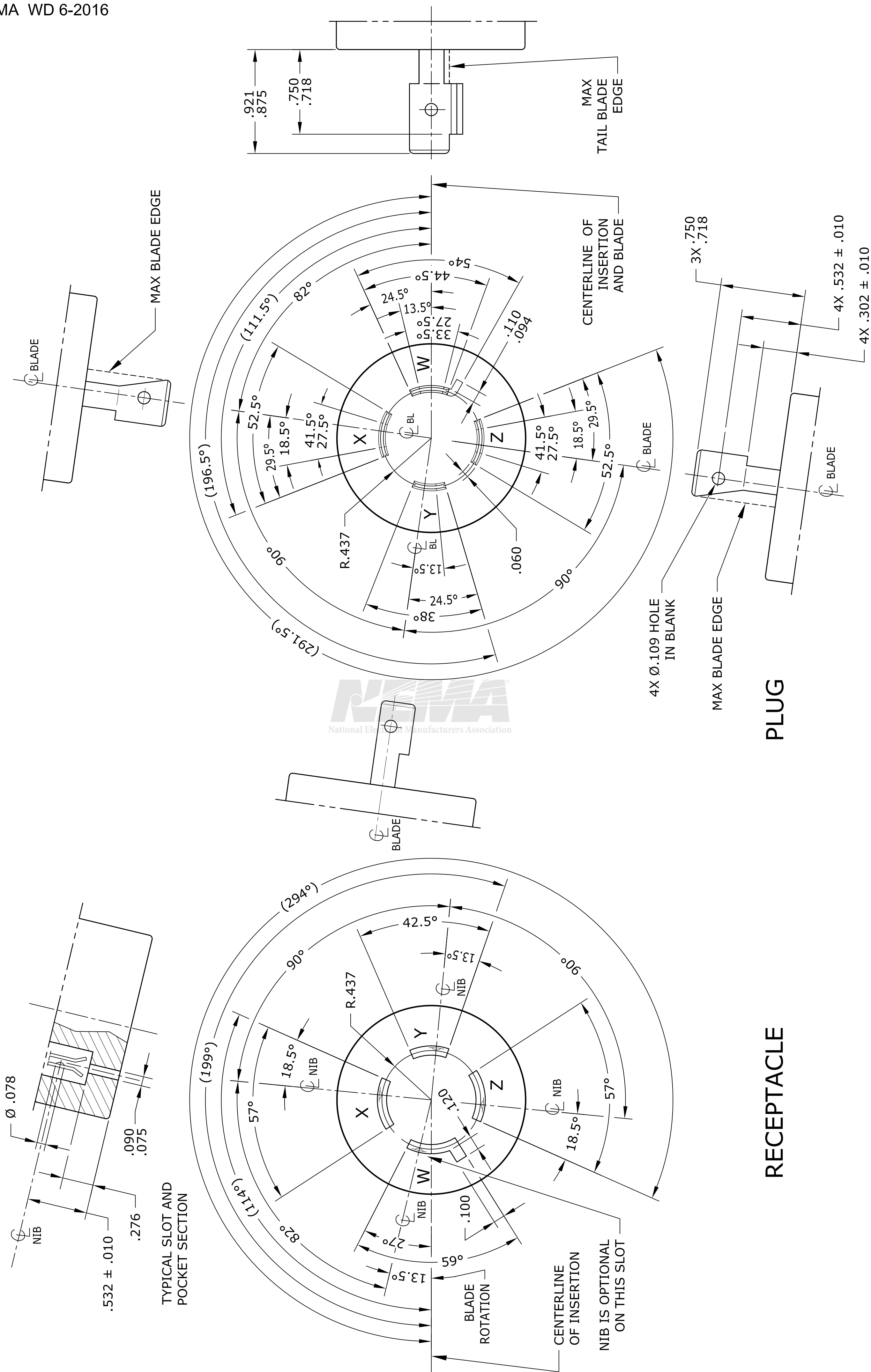
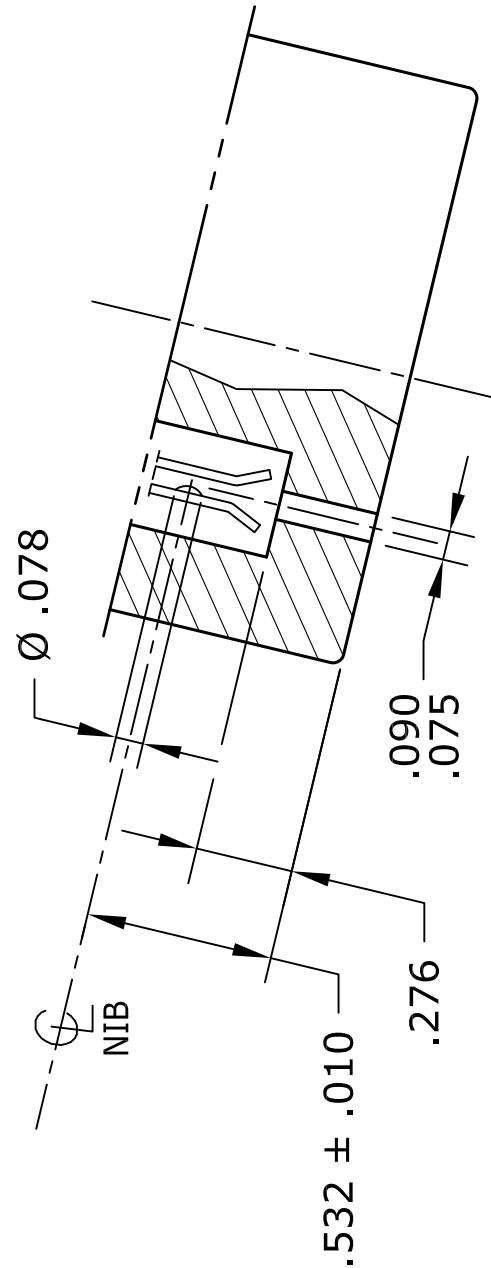


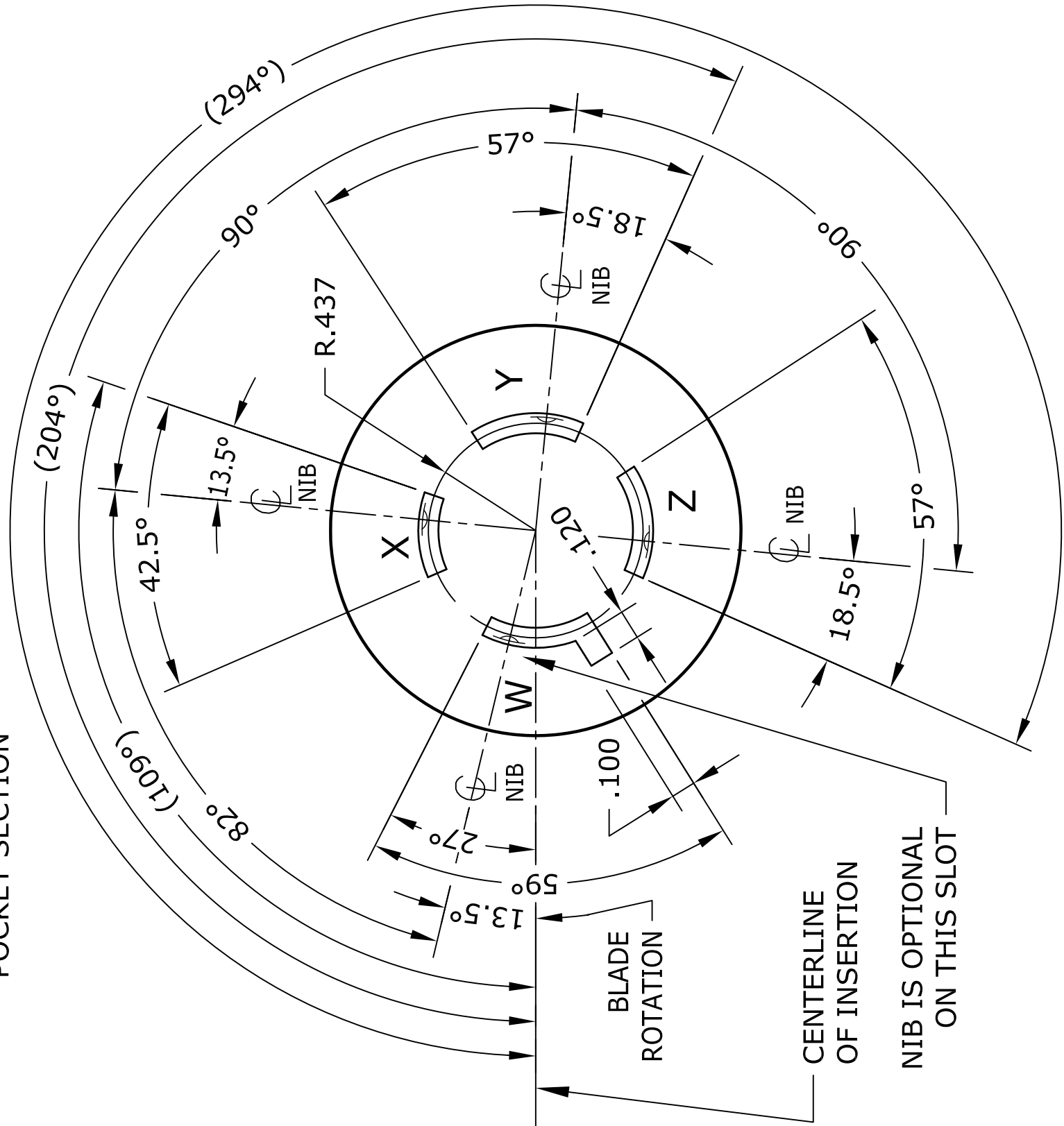


FIGURE L18-30
LOCKING TYPE PLUG AND RECEPTACLE
120/208 volts, 30 amperes, 3 phase Y, 4 pole, 4 wire

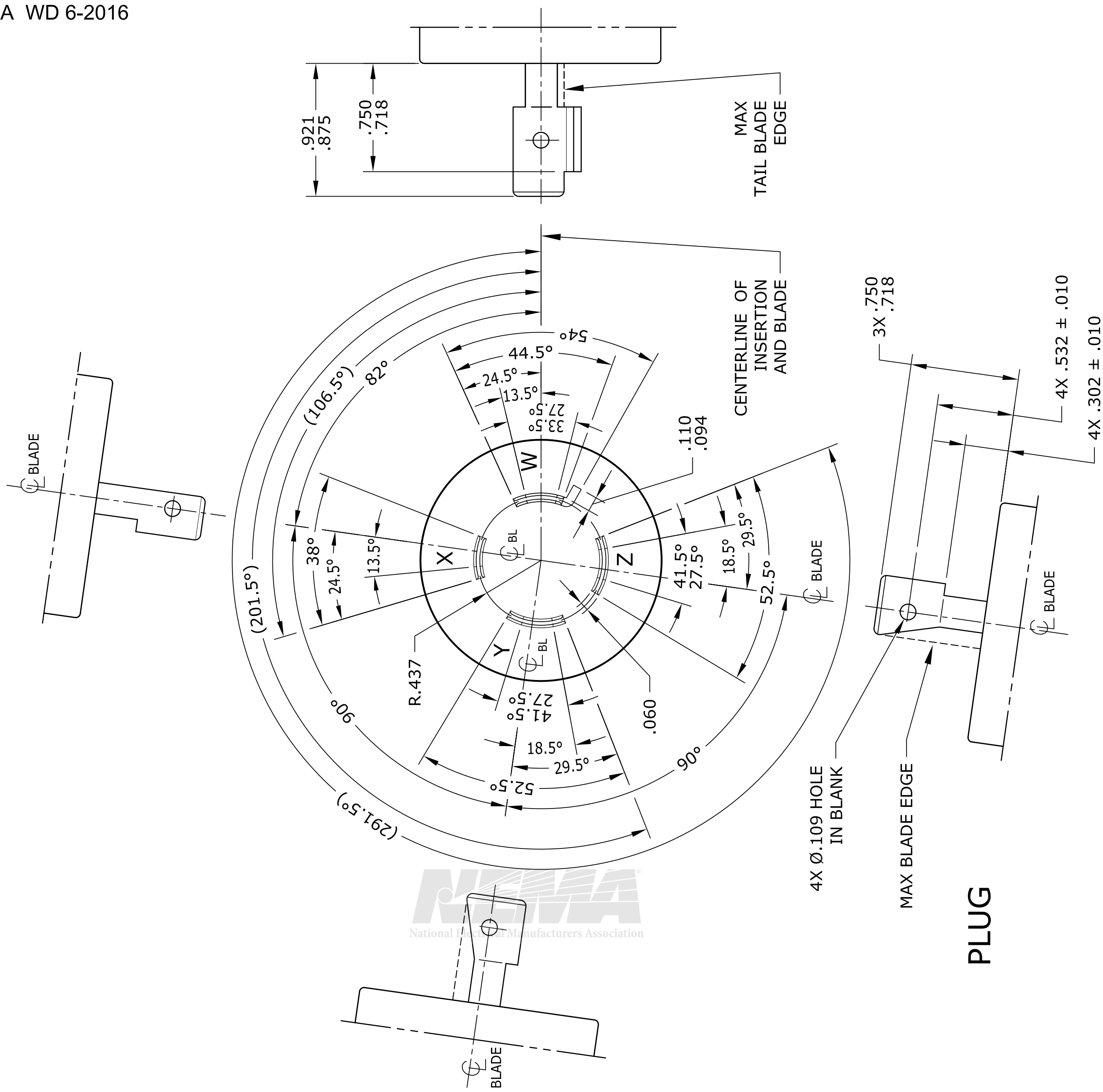
FIGURE L19-20
LOCKING TYPE PLUG AND RECEPTACLE
277/480 volts, 20 amperes, 3 phase Y, 4 pole, 4 wire



TYPICAL SLOT AND
POCKET SECTION



RECEPTACLE



PLUG



FIGURE L19-30
LOCKING TYPE PLUG AND RECEPTACLE
277/480 volts, 30 amperes, 3 phase Y, 4 pole, 4 wire

Ø .078

.090
.075

.276

.532 ± .010

NIB

TYPICAL SLOT AND
POCKET SECTION





FIGURE L20-30
LOCKING TYPE PLUG AND RECEPTACLE
347/600 volts, 30 amperes, 3 phase Y, 4 pole, 4 wire

FIGURE L21-20

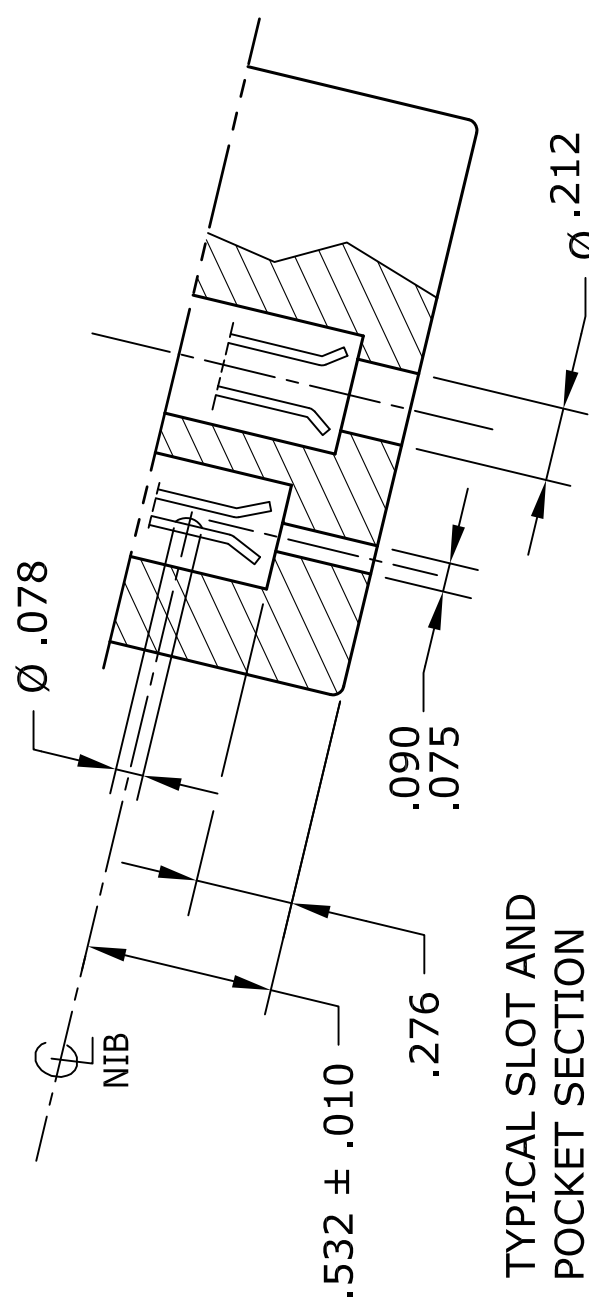




FIGURE L21-30
LOCKING TYPE PLUG AND RECEPTACLE
120/208 volts, 30 amperes, 3 phase Y, 4 pole, 5 wire, Grounding type

FIGURE L21-50
LOCKING TYPE PLUG AND RECEPTACLE
120/208 volts, 50 amperes, 3 phase Y, 4 pole, 5 wire, Grounding type

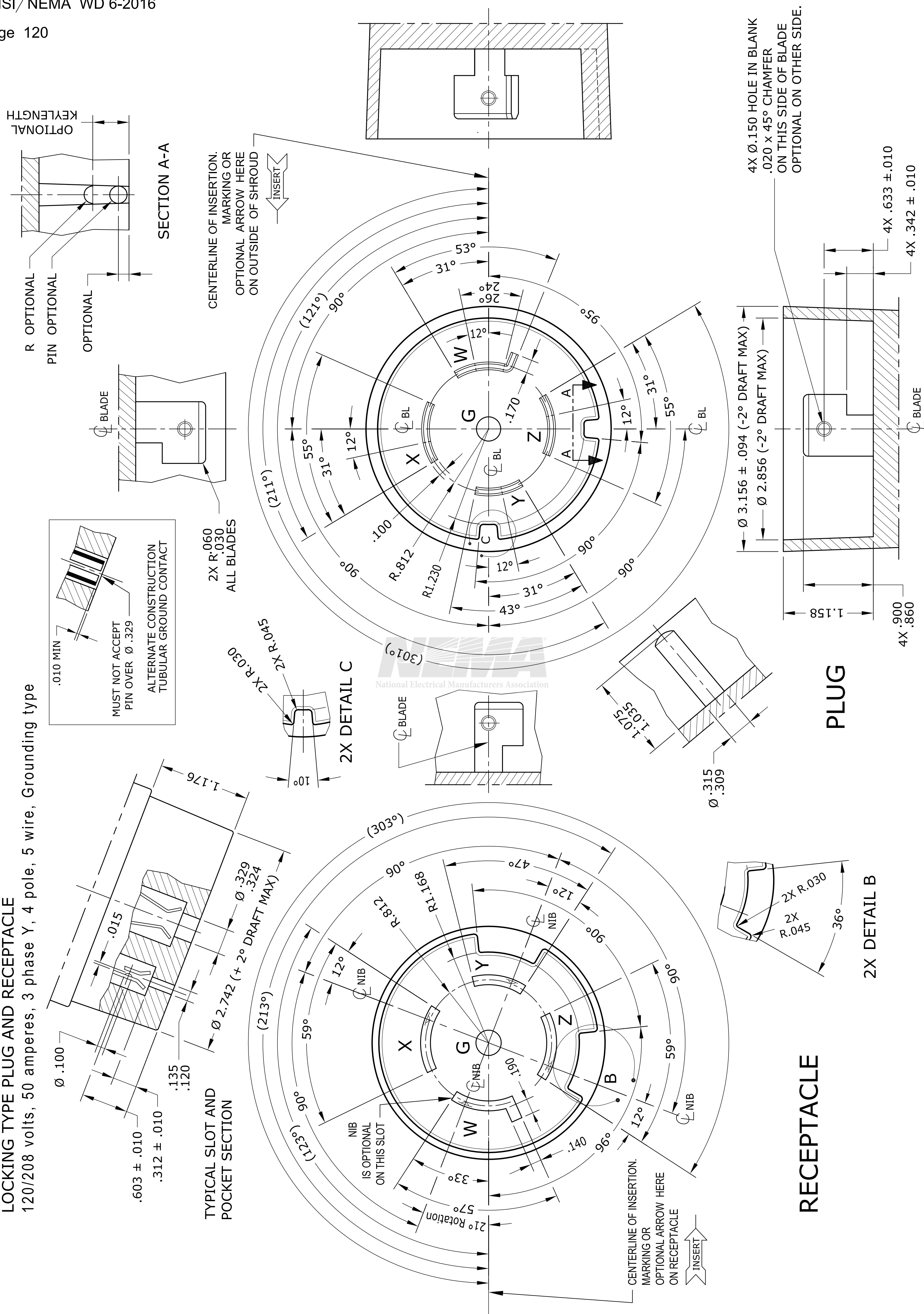




FIGURE L21-60
LOCKING TYPE PLUG AND RECEPTACLE
120/208 volts, 60 amperes, 3 phase Y, 4 pole, 5 wire, Grounding type

FIGURE L22-20

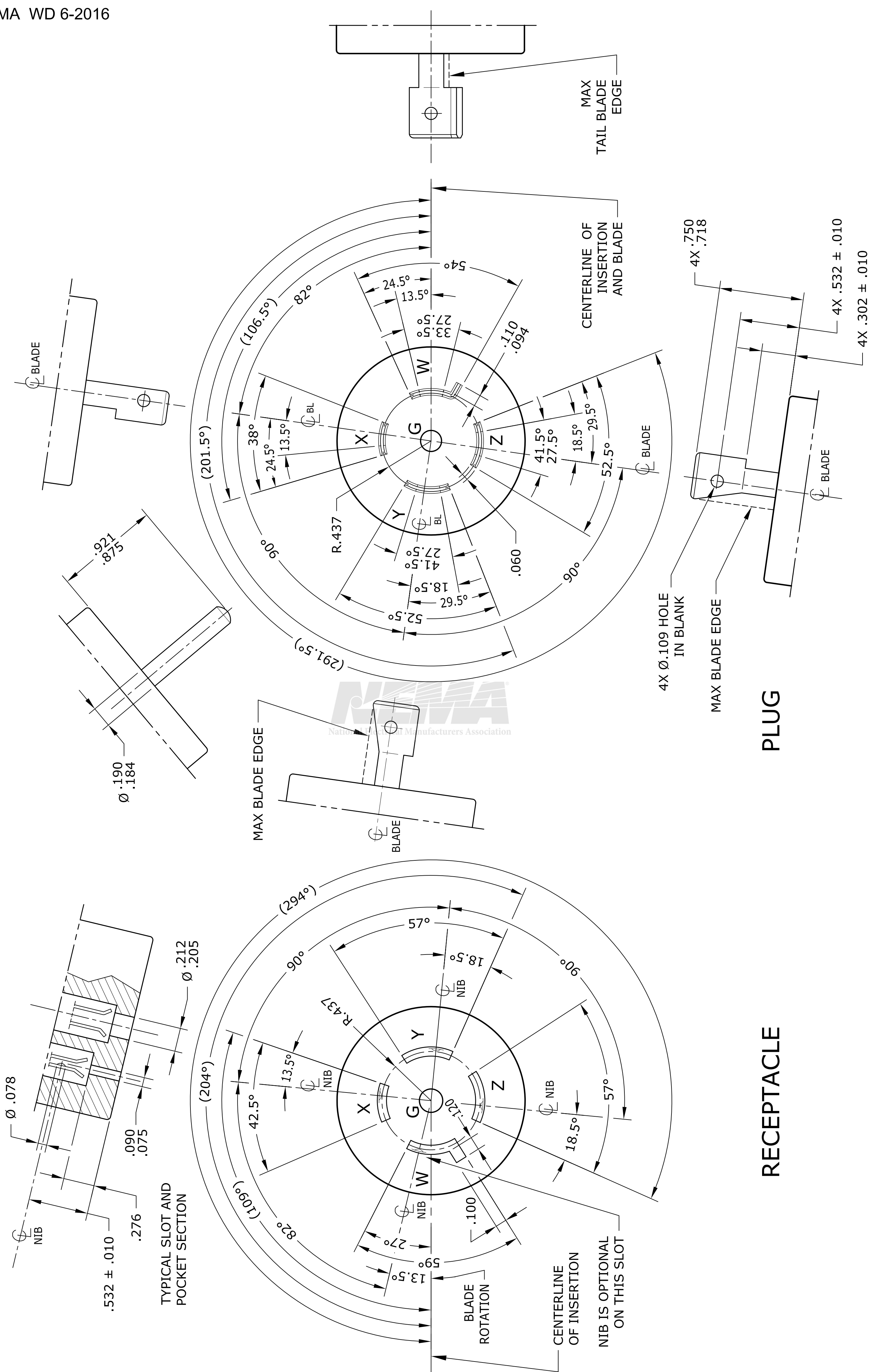




FIGURE L22-30
LOCKING TYPE PLUG AND RECEPTACLE
277/480 volts, 30 amperes, 3 phase Y, 4 pole, 5 wire, Grounding type

FIGURE L22-50

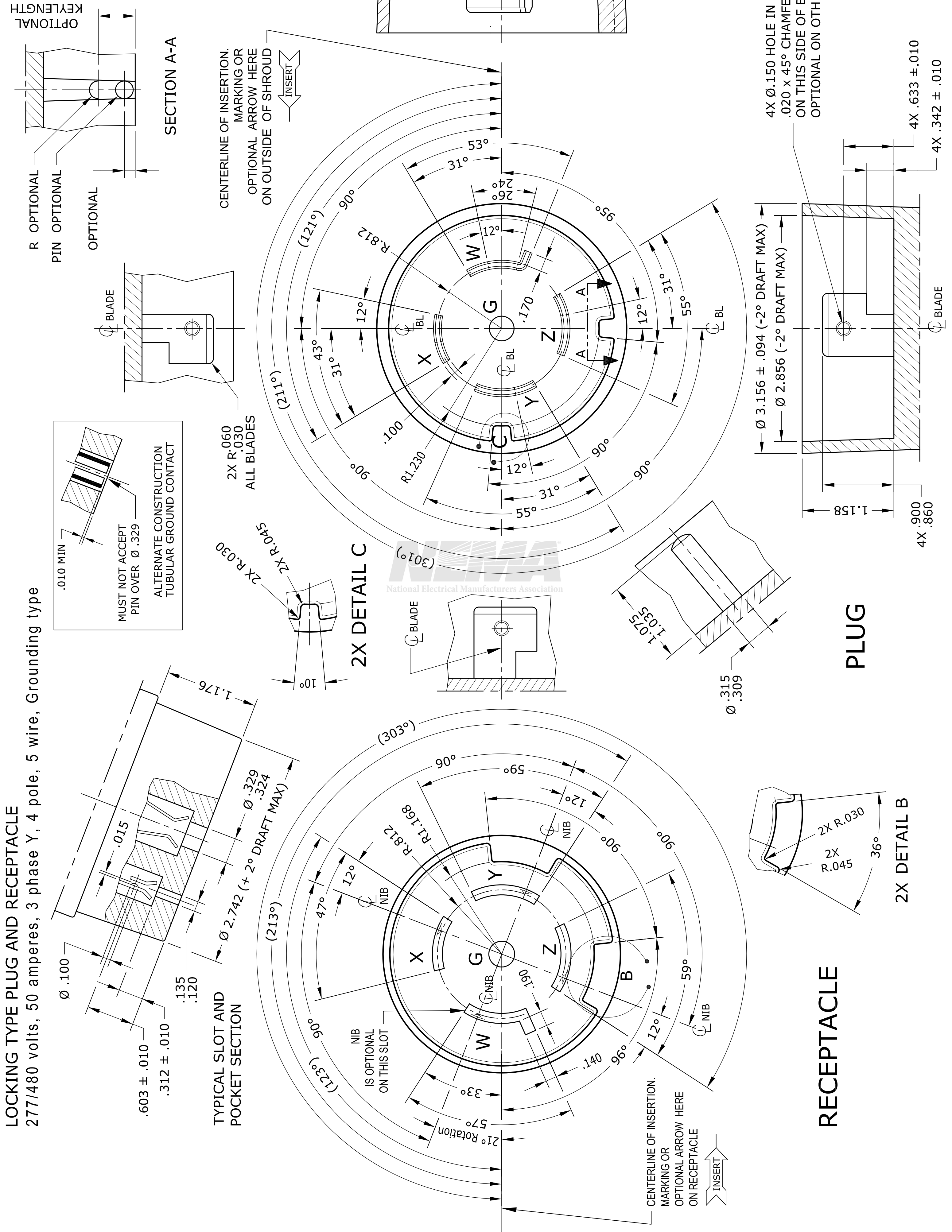
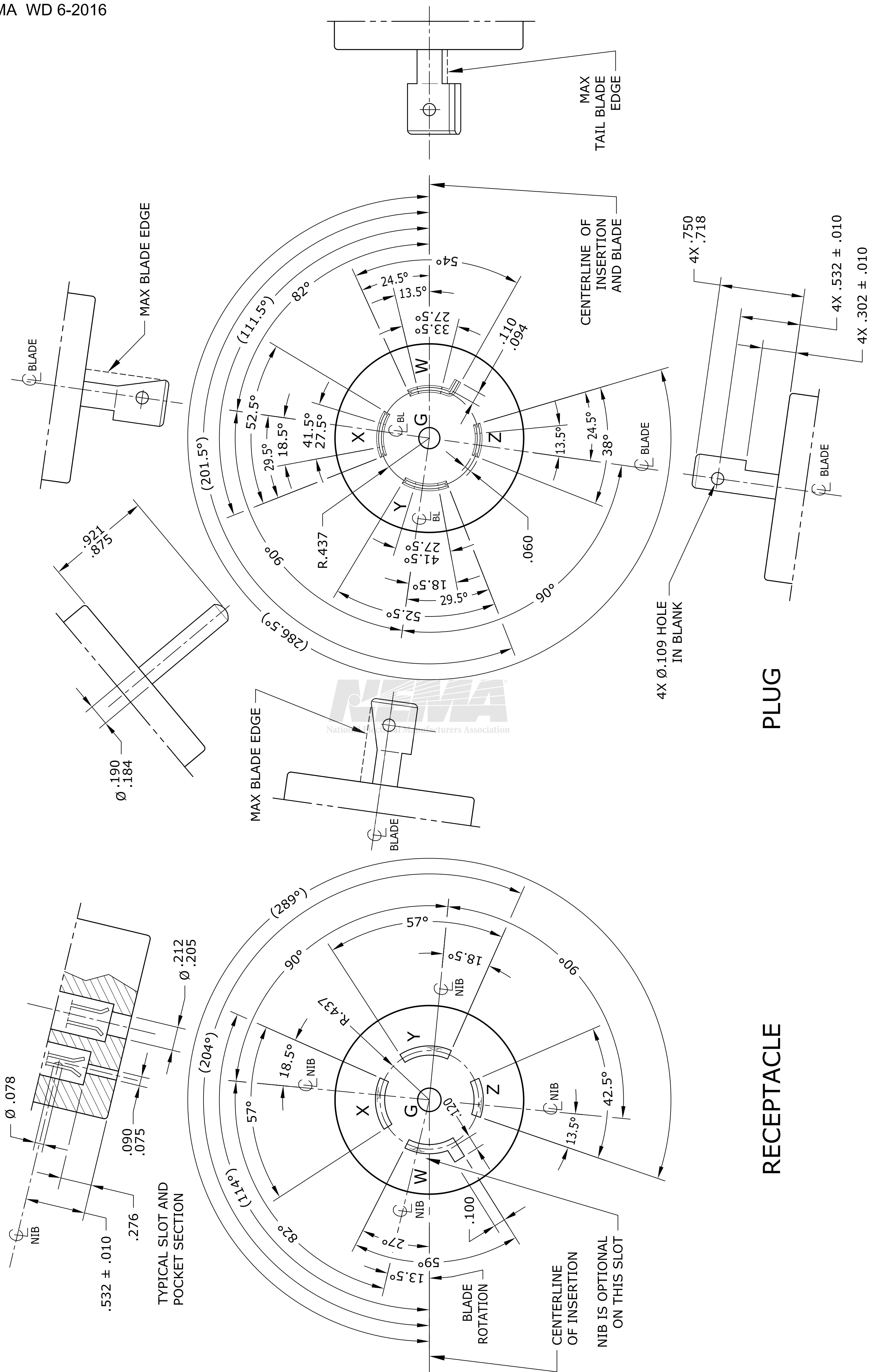
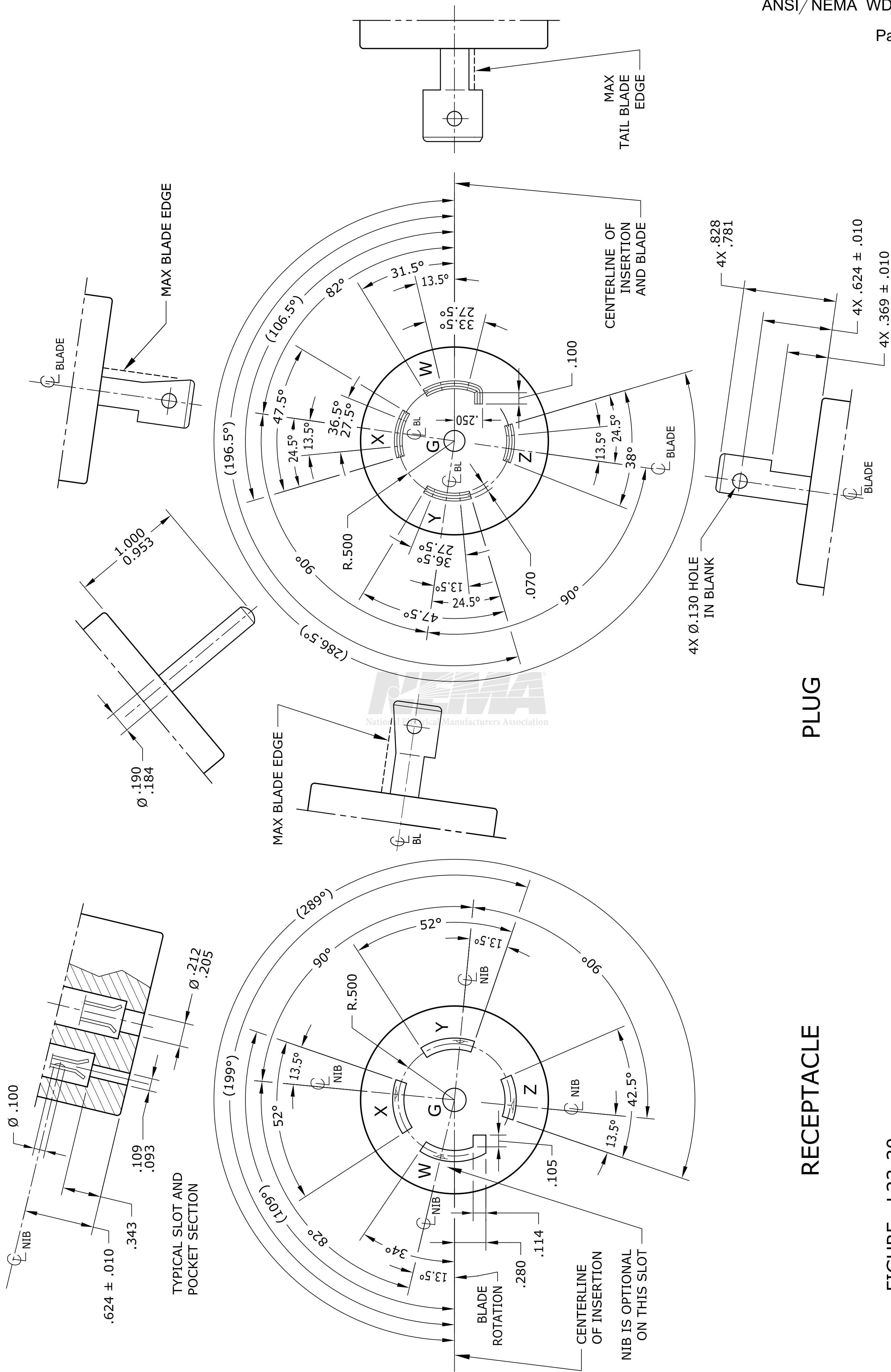




FIGURE L22-60
LOCKING TYPE PLUG AND RECEPTACLE
277/480 volts, 60 amperes, 3 phase Y, 4 pole, 5 wire, Grounding type

FIGURE L23-20
LOCKING TYPE PLUG AND RECEPTACLE
347/600 volts, 20 amperes, 3 phase Y, 4 pole, 5 wire, Grounding type



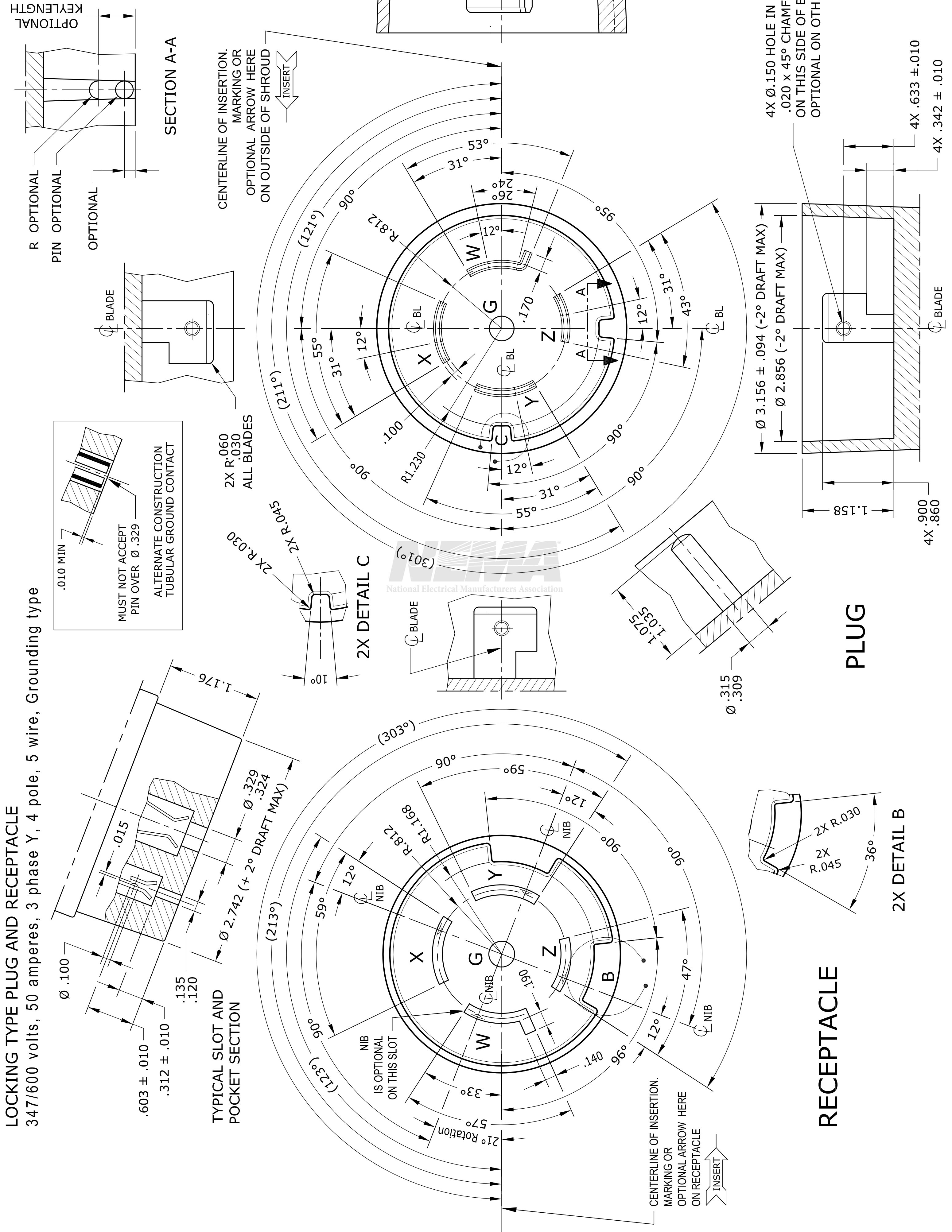


PLUG

RECEPTACLE

FIGURE L23-30
LOCKING TYPE PLUG AND RECEPTACLE
347/600 volts, 30 amperes, 3 phase Y, 4 pole, 5 wire, Grounding type

FIGURE L23-50



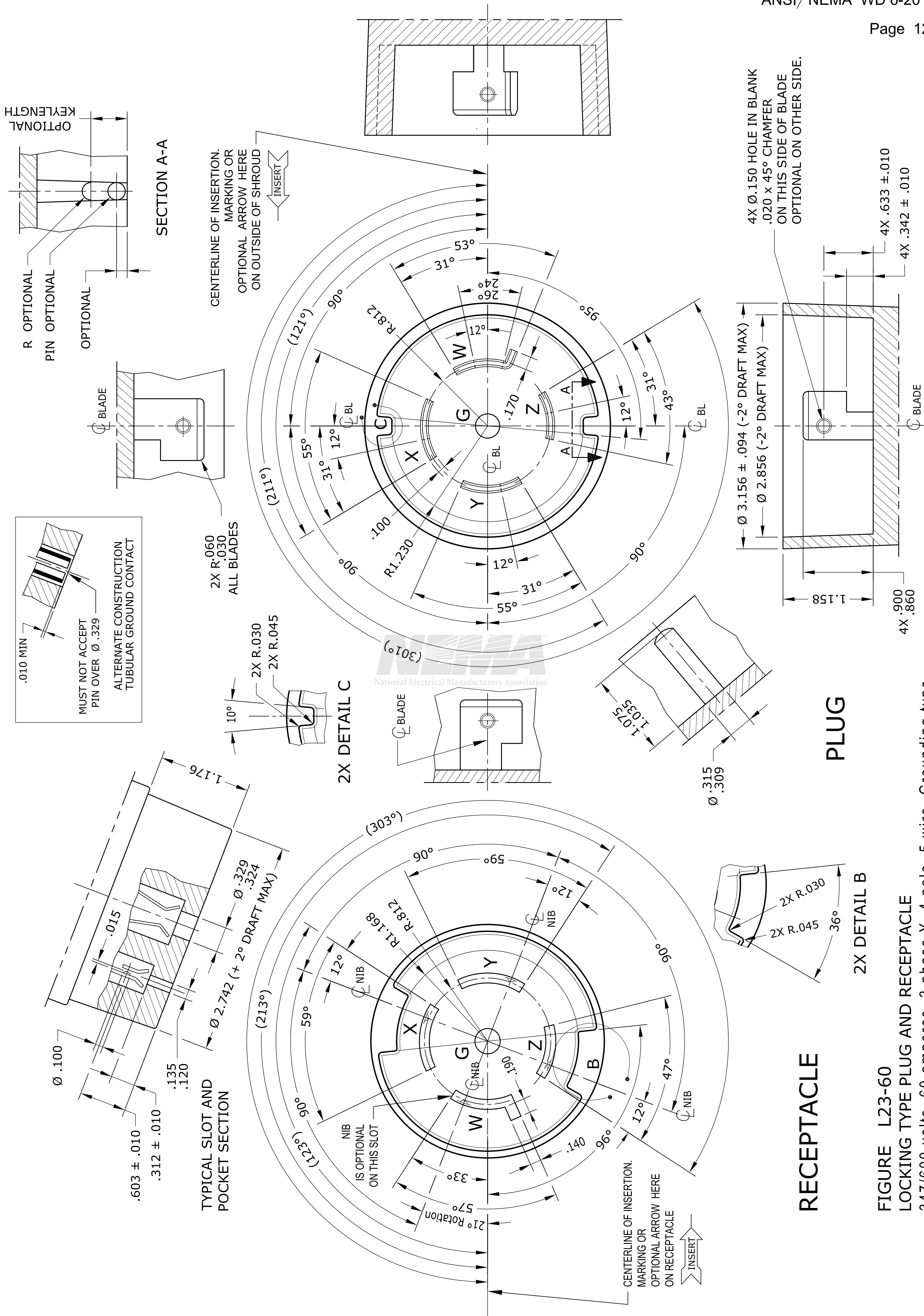


FIGURE L23-60
LOCKING TYPE PLUG AND RECEPTACLE
347/600 volts, 60 amperes, 3 phase Y, 4 pole, 5 wire, Grounding type

Technical drawing showing a cross-section of a part with a slot and a pocket. Dimensions are given in inches.

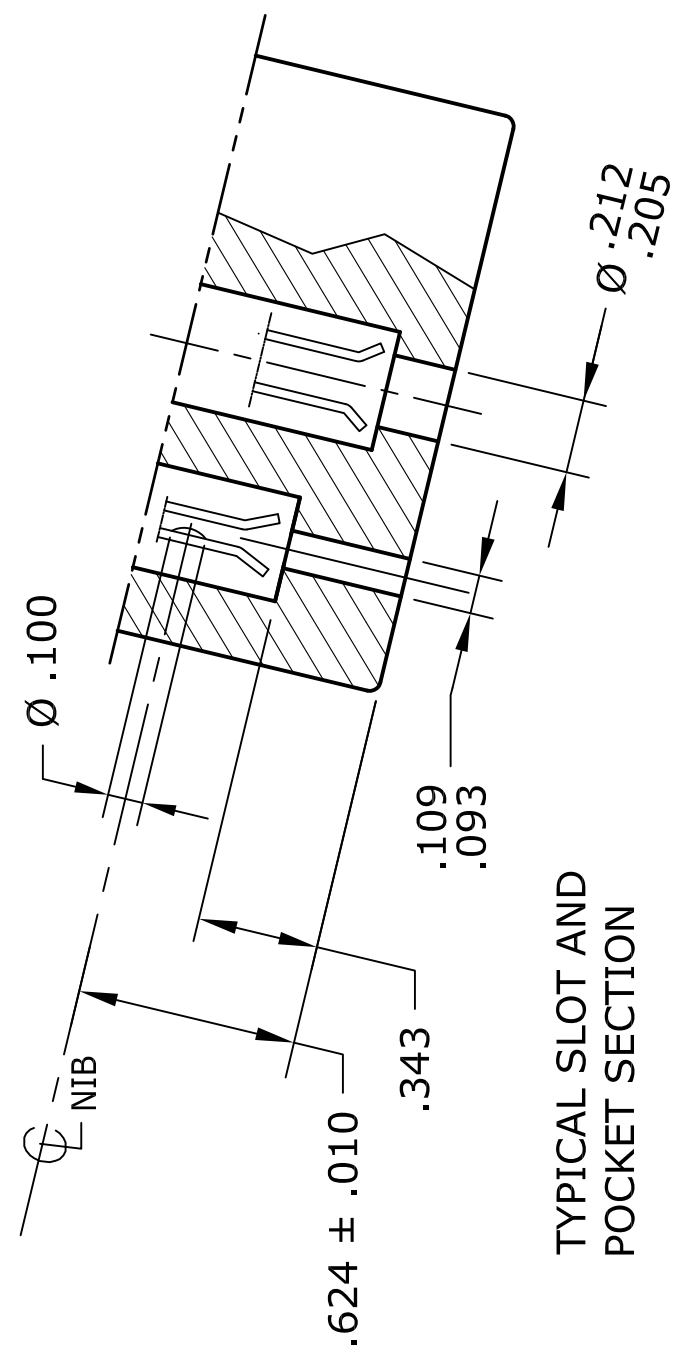
- Slot width: $\varnothing .078$
- Pocket width: $.090$
- Slot depth: $.075$
- Pocket depth: $.276$
- Slot location from left edge: $.532 \pm .010$
- Pocket location from right edge: $.010$
- Note: NIB (Not In Block)
- Section type: TYPICAL SLOT AND POCKET SECTION





FIGURE L25-30
LOCKING TYPE PLUG AND RECEPTACLE
240 volts AC, 30 amperes, 2 pole, 3 wire, Grounding type

FIGURE L26-30



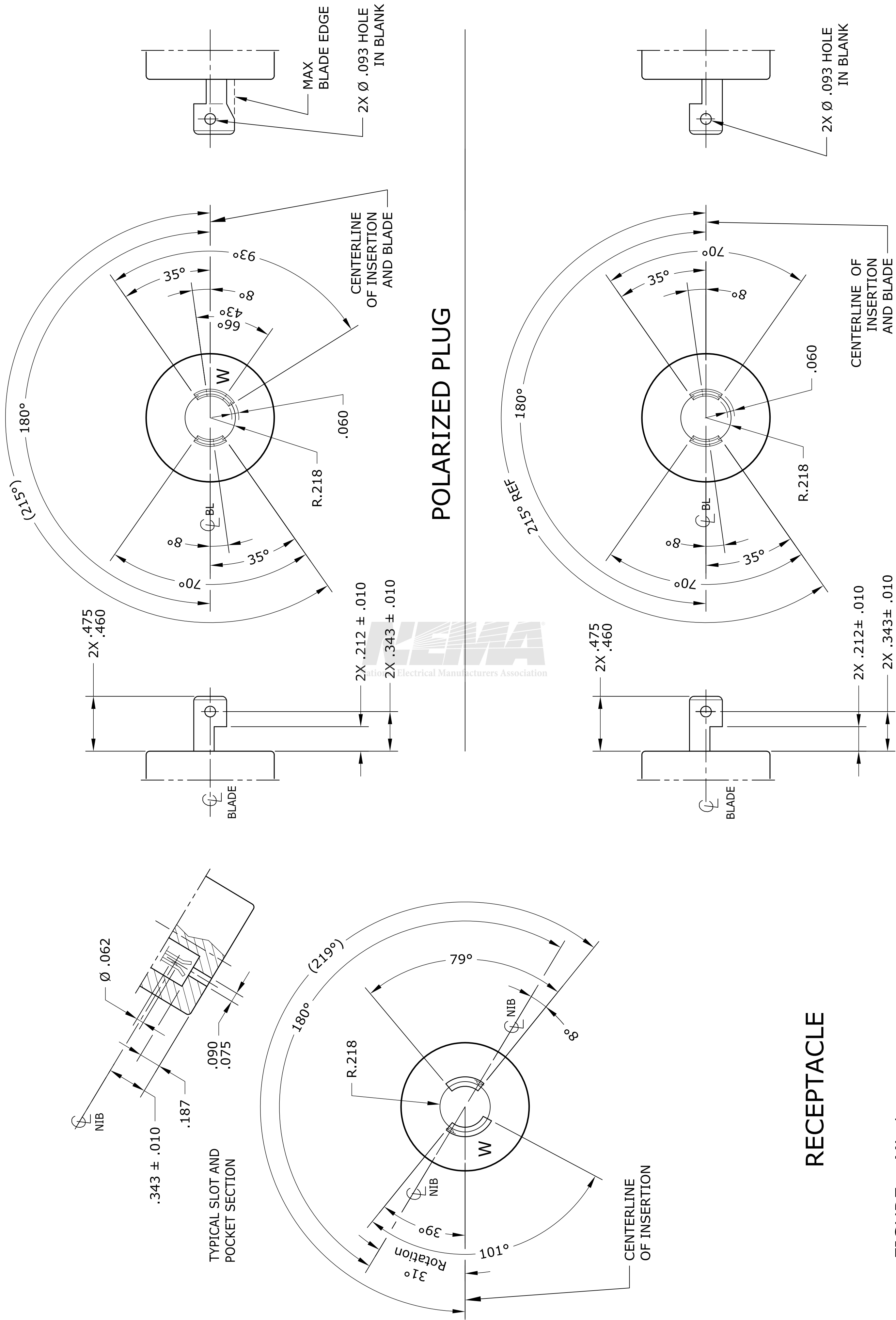
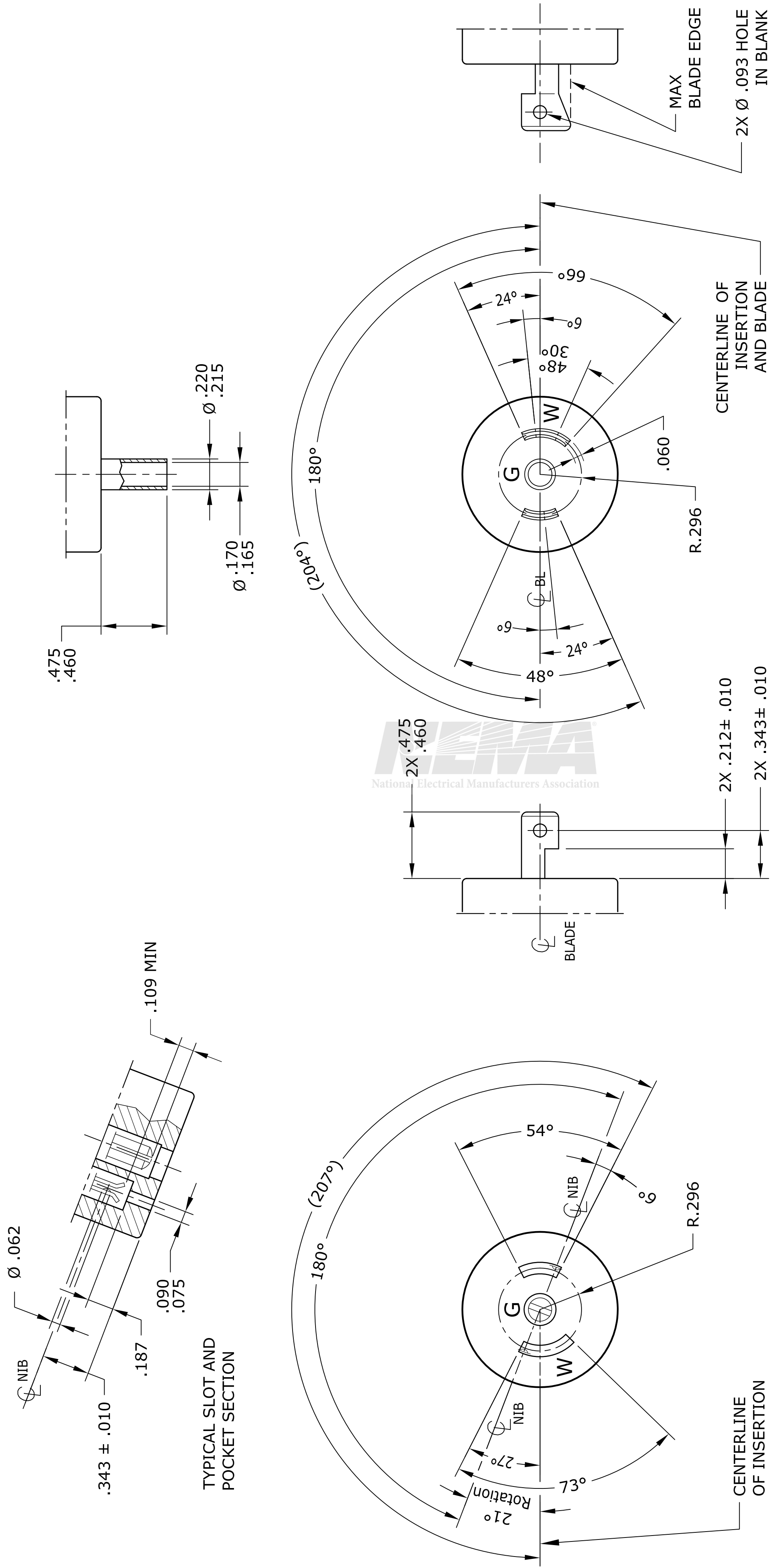


FIGURE ML-1
MIDGET LOCKING TYPE PLUG AND RECEPTACLE
125 volts, 15 amperes, 2 pole, 2 wire

FIGURE ML-2
MIDGET LOCKING TYPE PLUG AND RECEPTACLE
125 volts, 15 amperes, 2 pole, 3 wire, Grounding type



PLUG

RECEPTACLE

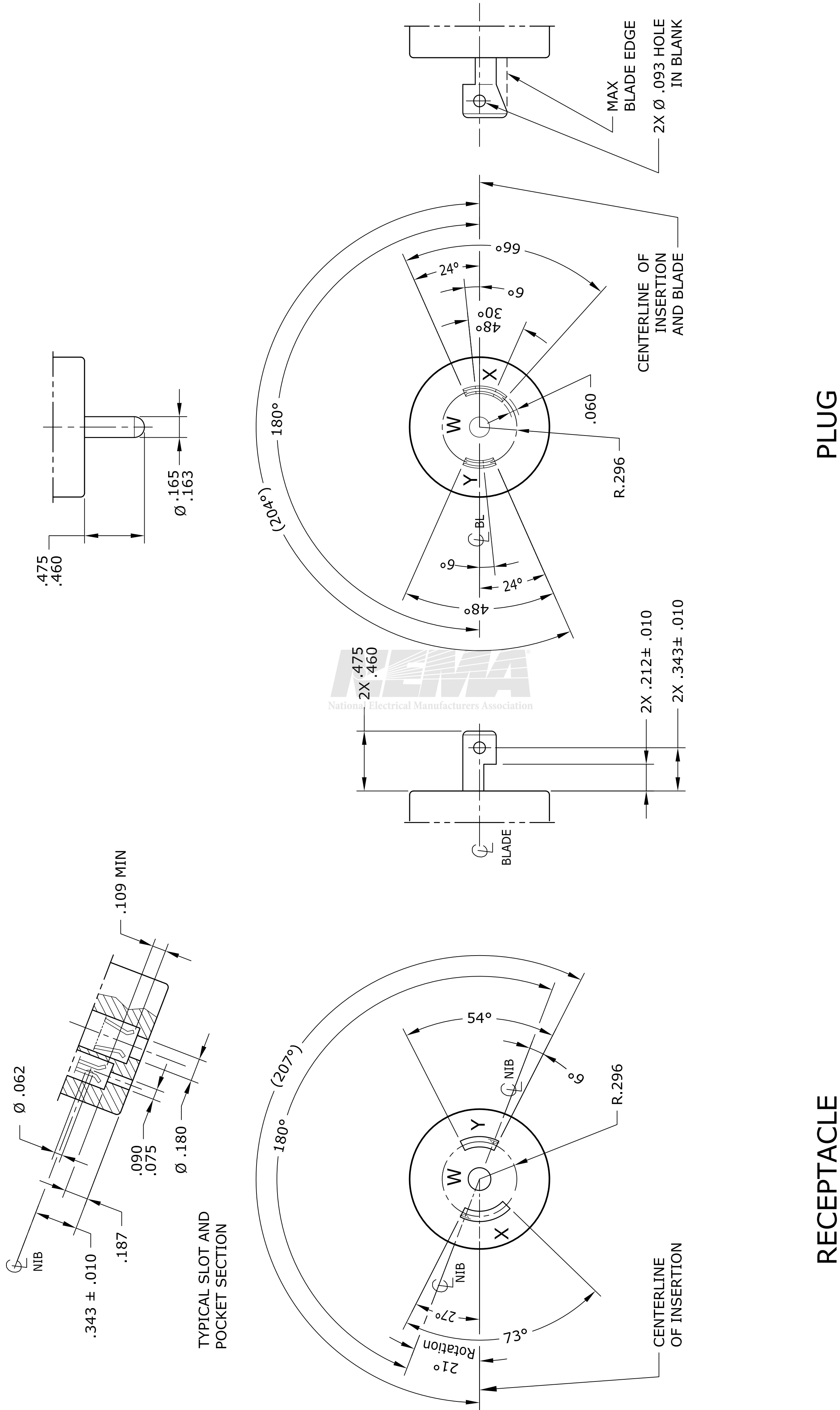


FIGURE ML-3
MIDGERT LOCKING TYPE PLUG AND RECEPTACLE
125/250 volts, 15 amperes, 3 pole, 3 wire

TYPICAL SLOT AND POCKET SECTION



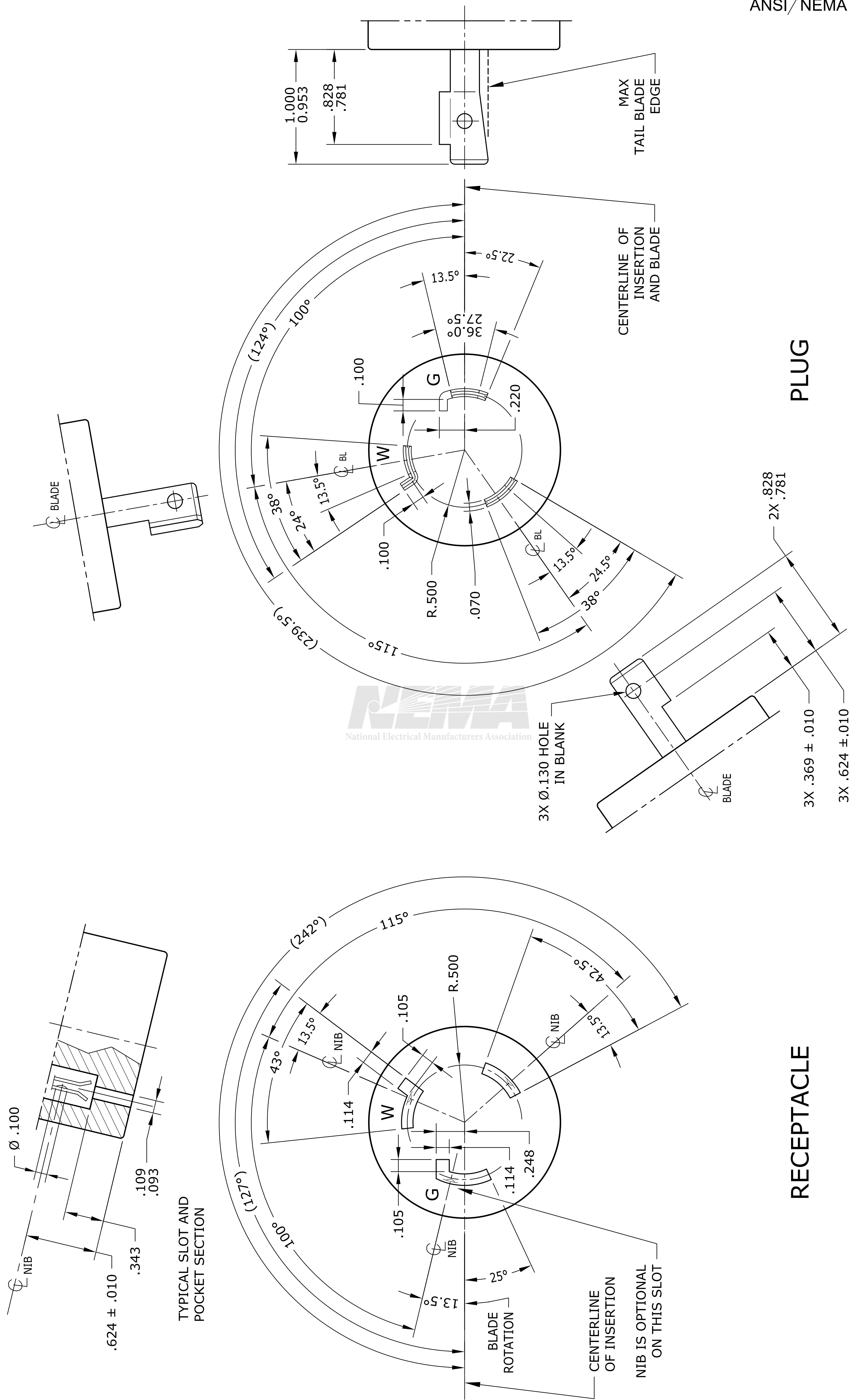


FIGURE FSL 2
LOCKING TYPE PLUG AND RECEPTACLE
120 volts, 30 amperes, 400Hz, 2 pole, 3 wire, Grounding type

FIGURE FSL 3
LOCKING TYPE PLUG AND RECEPTACLE
120 volts, 30 amperes, 400 Hz, 3 phase, 3 pole, 4 wire, Grounding type

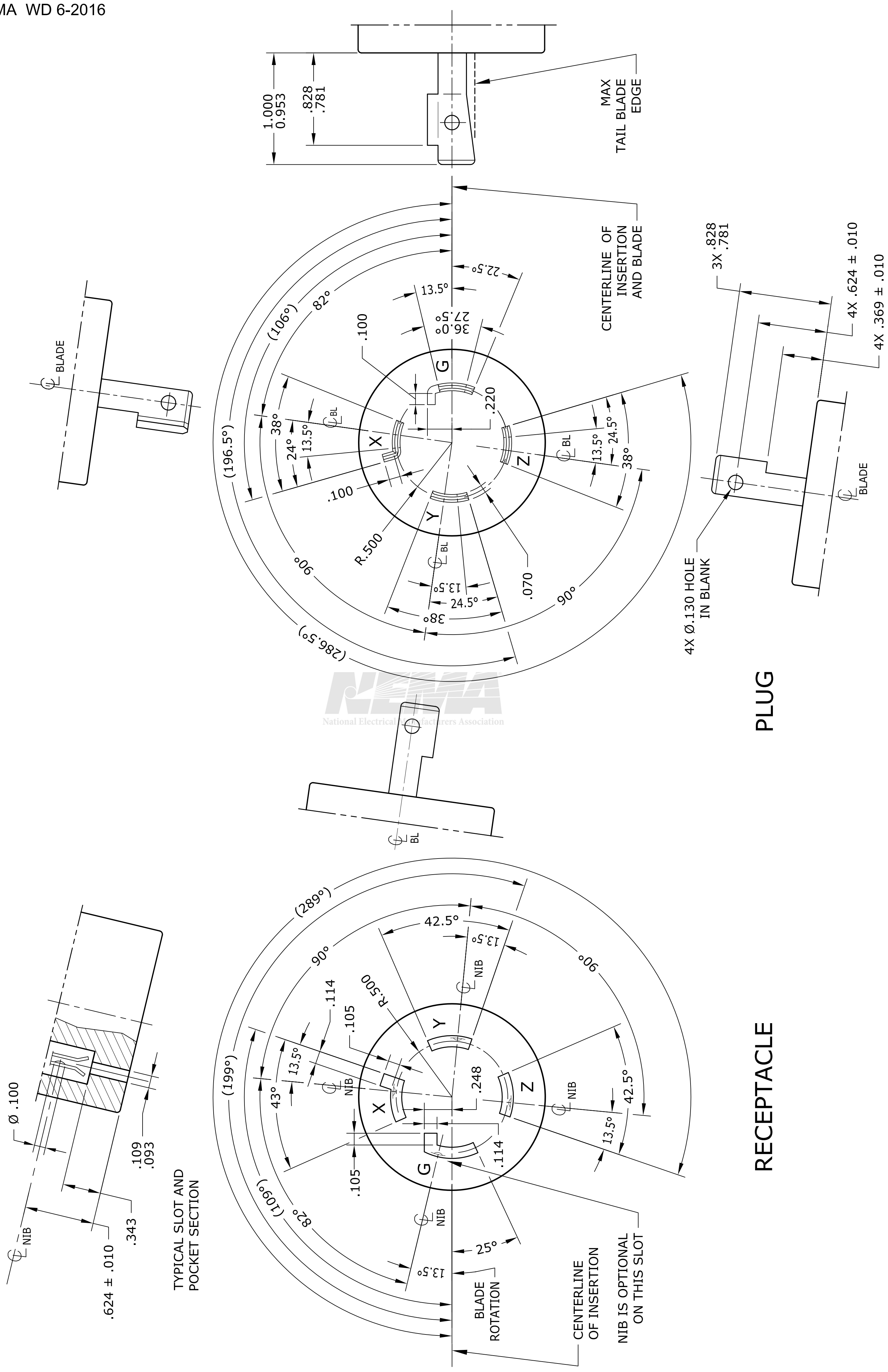


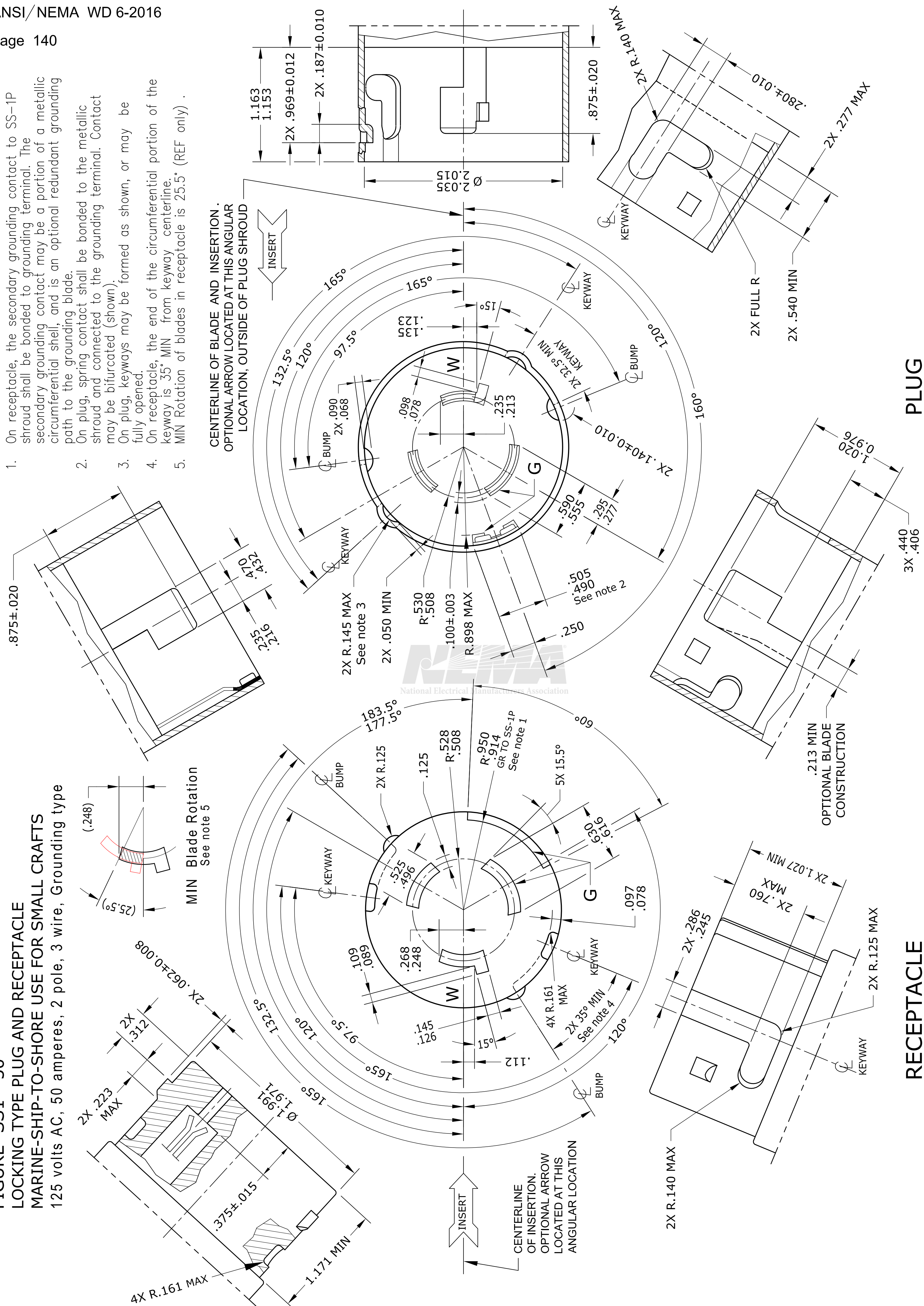


FIGURE FSL 4
LOCKING TYPE PLUG AND RECEPTACLE
120/208 volts, 30 amperes, 3 phase Y, 400 Hz, 4 pole, 5 wire, Grounding type

FIGURE SS1 - 50
LOCKING TYPE PLUG AND RECEPTACLE
MARINE-SHIP-TO-SHORE USE FOR SMALL CRAFTS
125 volts AC, 50 amperes, 2 pole, 3 wire, Grounding type

NOTES:

1. On receptacle, the secondary grounding contact to SS-1P shroud shall be bonded to grounding terminal. The secondary grounding contact may be a portion of a metallic circumferential shell, and is an optional redundant grounding path to the grounding blade.
2. On plug, spring contact shall be bonded to the metallic shroud and connected to the grounding terminal. Contact may be bifurcated (shown).
3. On plug, keyways may be formed as shown, or may be fully opened.
4. On receptacle, the end of the circumferential portion of the keyway is 35° MIN from keyway centerline.
5. MIN Rotation of blades in receptacle is 25.5° (REE only) .



- CENTERLINE OF BLADE AND INSERTION .
OPTIONAL ARROW LOCATED AT THIS ANGULAR
LOCATION, OUTSIDE OF PLUG SHROUD



FIGURE SS2 - 50
LOCKING TYPE PLUG AND RECEPTACLE
MARINE-SHIP-TO-SHORE USE FOR SMALL CRAFTS
125/250 volts, 50 amperes, 3 pole, 4 wire, Grounding type

FIGURE T T



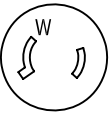
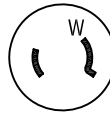
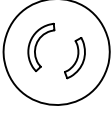
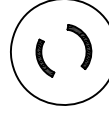




































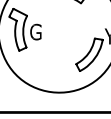
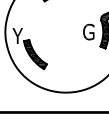






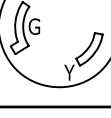
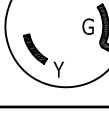



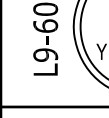





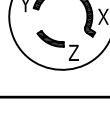



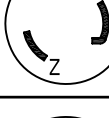


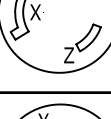
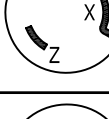
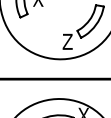
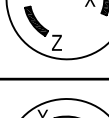
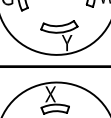

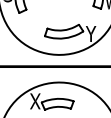
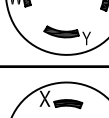



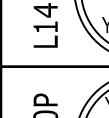

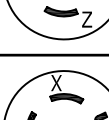





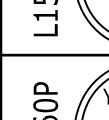
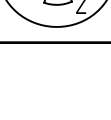
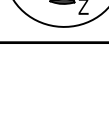











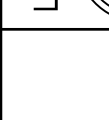

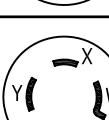

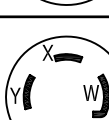




























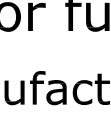
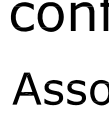




RECEPTACLE

NEMA CONFIGURATIONS FOR NON-LOCKING PLUGS AND RECEPTACLES

DESCRIPTION		NEMA NUMBER	15 AMPERE		20 AMPERE		30 AMPERE		50 AMPERE		60 AMPERE	
			RECEPTACLE	PLUG	RECEPTACLE	PLUG	RECEPTACLE	PLUG	RECEPTACLE	PLUG	RECEPTACLE	PLUG
2-POLE 2-WIRE	125V	1	1-15R	1-15P <small>POLARIZED</small> <small>NON-POLAR</small>		1-20P <small>MATES WITH 5-20R</small>		1-30P <small>MATES WITH 5-30R</small>				
	250V	2		2-15P <small>MATES WITH 6-15R</small>	2-20R	2-20P	2-30R	2-30P				
	277V AC	3										
	600V	4										
2-POLE 3-WIRE GROUNDING	125V	5	5-15R	5-15P <small>ONE WIDE BLADE</small> <small>NARROW BLADES</small>	5-20R	5-20P	5-30R	5-30P	5-50R	5-50P		
	125V	5 ALT			5ALT-20R							
	250V	6	6-15R	6-15P	6-20R	6-20P	6-30R	6-30P	6-50R	6-50P		
	250V	6 ALT			6ALT-20R							
	277V AC	7	7-15R	7-15P	7-20R	7-20P	7-30R	7-30P	7-50R	7-50P		
	347V AC	24	24-15R	24-15P	24-20R	24-20P	24-30R	24-30P	24-50R	24-50P		
	480V AC	8										
	600V AC	9										
3-POLE 3-WIRE	125 / 250V	10			10-20R	10-20P	10-30R	10-30P	10-50R	10-50P		
	3 Ø 250V	11	11-15R	11-15P	11-20R	11-20P	11-30R	11-30P	11-50R	11-50P		
	3 Ø 480V	12										
	3 Ø 600V	13										
3-POLE 4-WIRE GROUNDING	125 / 250V	14	14-15R	14-15P	14-20R	14-20P	14-30R	14-30P	14-50R	14-50P	14-60R	14-60P
	3 Ø 250V	15	15-15R	15-15P	15-20R	15-20P	15-30R	15-30P	15-50R	15-50P	15-60R	15-60P
	3 Ø 480V	16										
	3 Ø 600V	17										
4-POLE 4-WIRE	3 Ø Y 120 / 208V	18	18-15R	18-15P	18-20R	18-20P	18-30R	18-30P	18-50R	18-50P	18-60R	18-60P
	3 Ø Y 277 / 480V	19										
	3 Ø Y 347 / 600V	20										
4-POLE 5-WIRE GROUNDING	3 Ø Y 120 / 208V	21										
	3 Ø Y 277 / 480V	22										
	3 Ø Y 347 / 600V	23										

NOTE: Blank spaces reserved for future configurations

NEMA CONFIGURATIONS FOR LOCKING PLUGS AND RECEPTACLES

DESCRIPTION		NEMA NUMBER	15 AMPERE		20 AMPERE		30 AMPERE		50 AMPERE		60 AMPERE	
			RECEPTACLE	PLUG	RECEPTACLE	PLUG	RECEPTACLE	PLUG	RECEPTACLE	PLUG	RECEPTACLE	PLUG
2-POLE 2-WIRE	125V	1	L1-15R 	L1-15P 								
	250V	2			L2-20R 	L2-20P 						
	277V AC	3										
	600V	4										
2-POLE 3-WIRE GROUNDING	125V	5	L5-15R 	L5-15P 	L5-20R 	L5-20P 	L5-30R 	L5-30P 	L5-50R 	L5-50P 	L5-60R 	L5-60P 
	240V AC	25					L25-30R 	L25-30P 				
	250V	6	L6-15R 	L6-15P 	L6-20R 	L6-20P 	L6-30R 	L6-30P 	L6-50R 	L6-50P 	L6-60R 	L6-60P 
	277V AC	7	L7-15R 	L7-15P 	L7-20R 	L7-20P 	L7-30R 	L7-30P 	L7-50R 	L7-50P 	L7-60R 	L7-60P 
	347V AC	24			L24-20R 	L24-20P 						
	480V AC	8			L8-20R 	L8-20P 	L8-30R 	L8-30P 	L8-50R 	L8-50P 	L8-60R 	L8-60P 
	600V AC	9			L9-20R 	L9-20P 	L9-30R 	L9-30P 	L9-50R 	L9-50P 	L9-60R 	L9-60P 
3-POLE 3-WIRE	125 / 250V	10			L10-20R 	L10-20P 	L10-30R 	L10-30P 				
	3 Ø 250V	11	L11-15R 	L11-15P 	L11-20R 	L11-20P 	L11-30R 	L11-30P 				
	3 Ø 480V	12			L12-20R 	L12-20P 	L12-30R 	L12-30P 				
	3 Ø 600V	13					L13-30R 	L13-30P 				
3-POLE 4-WIRE GROUNDING	125 / 250V	14			L14-20R 	L14-20P 	L14-30R 	L14-30P 	L14-50R 	L14-50P 	L14-60R 	L14-60P 
	3 Ø 250V	15			L15-20R 	L15-20P 	L15-30R 	L15-30P 	L15-50R 	L15-50P 	L15-60R 	L15-60P 
	3 Ø 480V	16			L16-20R 	L16-20P 	L16-30R 	L16-30P 	L16-50R 	L16-50P 	L16-60R 	L16-60P 
	3 Ø 600V	17					L17-30R 	L17-30P 	L17-50R 	L17-50P 	L17-60R 	L17-60P 
4-POLE 4-WIRE	3 Ø Y 120 / 208V	18			L18-20R 	L18-20P 	L18-30R 	L18-30P 				
	3 Ø Y 277 / 480V	19			L19-20R 	L19-20P 	L19-30R 	L19-30P 				
	3 Ø Y 347 / 600V	20			L20-20R 	L20-20P 	L20-30R 	L20-30P 				
4-POLE 5-WIRE GROUNDING	3 Ø Y 120 / 208V	21			L21-20R 	L21-20P 	L21-30R 	L21-30P 	L21-50R 	L21-50P 	L21-60R 	L21-60P 
	3 Ø Y 240/415V AC	26					L26-30R 	L26-30P 				
	3 Ø Y 277 / 480V	22			L22-20R 	L22-20P 	L22-30R 	L22-30P 	L22-50R 	L22-50P 	L22-60R 	L22-60P 
	3 Ø Y 347 / 600V	23			L23-20R 	L23-20P 	L23-30R 	L23-30P 	L23-50R 	L23-50P 	L23-60R 	L23-60P 

NOTE: Blank spaces reserved for future configurations

NEMA CONFIGURATIONS FOR SPECIFIC PURPOSE PLUGS AND RECEPTACLES

DESCRIPTION		NEMA NUMBER	15 AMPERE		30 AMPERE		50 AMPERE	
			RECEPTACLE	PLUG	RECEPTACLE	PLUG		
MIDGET LOCKING	125V, 2 POLE, 2 WIRE	ML1	ML1-15R	ML1-15P				
	125V, 2 POLE, 3 WIRE, GROUNDING	ML2	ML2-15R	ML2-15P				
	125/250V, 3 POLE, 3 WIRE	ML3	ML3-15R	ML3-15P				
FSL CONFIGURATIONS	28V DC, 2 POLE, 3 WIRE, GROUNDING	FSL1			FSL1-30R	FSL1-30P		
	120V, 400 Hz, 2 POLE, 3 WIRE, GROUNDING	FSL2			FSL2-30R	FSL2-30P		
	120V, 400 Hz, 3-PHASE, 3 POLE, 4 WIRE, GROUNDING	FSL3			FSL3-30R	FSL3-30P		
	120/208V, 3 Ø Y, 400 Hz, 4 POLE, 5 WIRE, GROUNDING	FSL4			FSL4-30R	FSL4-30P		
MARINE SHIP-TO-SHORE	125V, 2 POLE, 3 WIRE, GROUNDING	SS1					SS1-50R	SS1-50P
	125/250V, 3 POLE, 4 WIRE, GROUNDING	SS2					SS2-50R	SS2-50P
TRAVEL TRAILER	120V AC, 2 POLE, 3 WIRE, GROUNDING	TT			TT-30R	TT-30P		

NOTE: Blank spaces reserved for future configurations